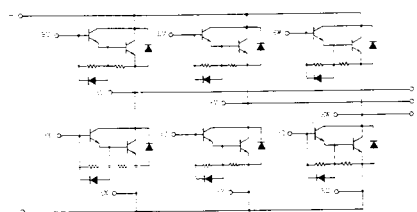


トランジスタ・モジュール (NPN, ダーリントン接続, 4個/6個内蔵)

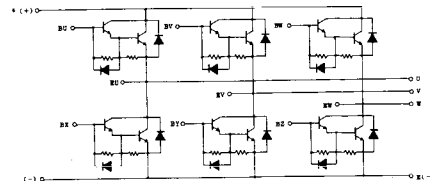
- ダーリントン・トランジスタを4個/6個内蔵
- フリーホイール・ダイオード付
- 電極と金属ケース部が絶縁されている
- ファストン端子による接続
- 直流電流増幅率は80以上(定格電流にて)

■等価回路

EL-1



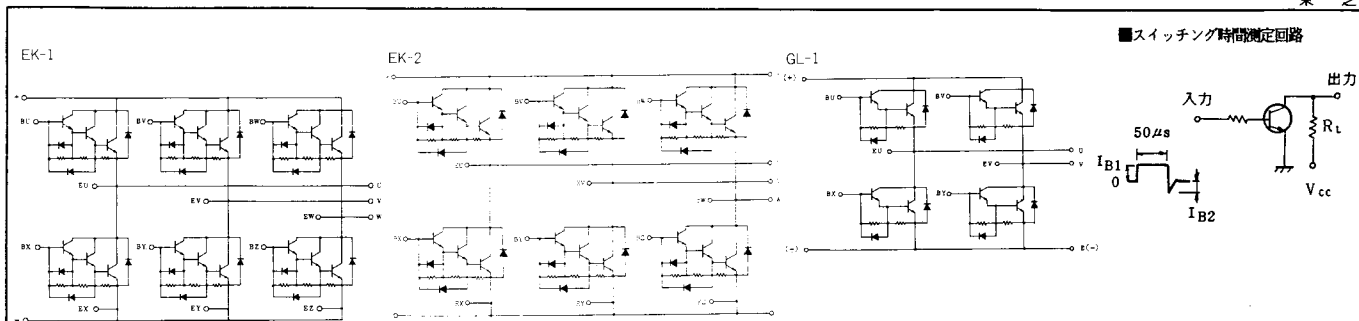
EL-2



注1. $T_c = 25^\circ\text{C}$.

注2. AC, 1分間。

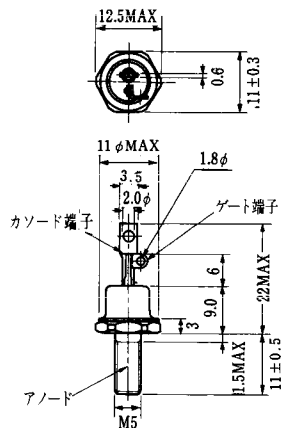
型 名	最 大 定 格 (T _a =25℃)											電 氣 的 特 性									
	V _{CE0}	V _{CEX(SUS)} V _{CEO} #	V _{EBO}	I _C	I _{CP} (lms)	I _B	I _F	I _{FM} (lms)	P _C	T _J	T _{stg}	V _{iso} (註2)	I _{CBO} (mA)	I _{EBO} (mA)	V _{CE0(SUS)} I _C	h _{FE}					
	(V)	(V)	(V)	(A)	(A)	(A)	(A)	(A)	(W)	(℃)	(℃)	(V)	最大	V _{CE} (V)	最大	V _{EB} (V)	最小	V _{CE} (V)	I _C (A)		
MG15G4GL1	600	600	6	15	30	1.5	15	30	100	150	-40~125	2500	1.0	600	100	6	450	0.5	100	5	15
MG20G4GL1	600	600 #	6	20	40	2.0	20	40	125	150	-40~125	2500	1.0	600	100	6	450	0.5	100	5	20
MG10G6EL1	500	500	6	10	20	1.0	10	20	80	150	-40~125	2500	1.0	500	100	6	400	0.5	100	5	10
MG10G6EL2	600	600	6	10	20	1.0	10	20	80	150	-40~125	2500	1.0	600	100	6	450	0.5	100	5	10
MG10Q6EK1	1200	1200	7	10	20	1.0	10	20	100	150	-40~125	2500	1.0	1200	200	7	900	0.5	100	5	10
MG15G6EL1	600	600	6	15	30	1.5	15	30	100	150	-40~125	2500	1.0	600	100	6	450	0.5	100	5	15
MG15G6EL2	500	500	6	15	30	1.0	15	30	80	150	-40~125	2500	1.0	500	100	6	400	0.5	100	5	15
MG15H6EL1	600	600	6	15	30	1.5	15	30	100	150	-40~125	2500	1.0	600	100	6	500	0.5	100	5	15
MG15N6EK1	1100	1100	7	15	30	1.5	15	30	150	150	-40~125	2500	1.0	1100	200	7	900	1.0	100	5	15
MG20G6EL1	600	600	6	20	40	2.0	20	40	125	150	-40~125	2500	1.0	600	100	6	450	0.5	100	5	20
MG20G6EL2	600	600	6	20	40	2.0	20	40	100	150	-40~125	2500	1.0	600	100	6	400	0.5	100	5	20
MG20Q6EK1	1200	1200	7	20	40	2.0	20	40	200	150	-40~125	2500	1.0	1200	200	7	900	0.5	100	5	20
MG25N6EK1	1100	1100	7	25	50	2.5	25	50	300	150	-40~125	2500	1.0	1100	200	7	900	0.5	100	5	25
MG30G6EL1	600	600	6	30	60	3.0	30	60	250	150	-40~125	2500	1.0	600	200	6	450	0.5	100	5	30
MG30G6EL2	600	600	6	30	60	2.0	30	60	200	150	-40~125	2500	1.0	600	200	6	450	0.5	100	5	30
MG50G6EL1	600	600	6	50	100	5.0	50	100	300	150	-40~125	2500	1.0	600	200	6	450	0.5	100	5	50
MG75G6EL1	600	600	6	75	150	10	75	150	350	150	-40~125	2500	1.0	600	200	6	450	0.5	80	5	75
MG75H6EL1	600	600	6	75	150	10	75	150	350	150	-40~125	2500	1.0	600	200	6	500	0.5	80	5	75



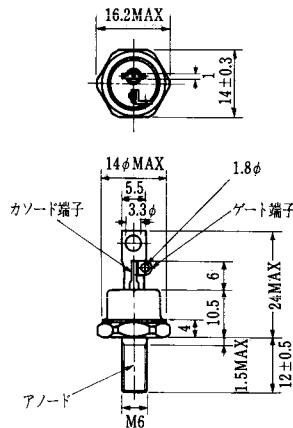
注3. スwitchング時間の * 印はtyp.値.

(T _a = 25℃)											エミッタ・コレクタ間ダイオード						熱抵抗		等 価 回 路	外形図	記 事	型 名
飽和電圧 (V)		I _c	I _B	スイッチング時間 (μs)			I _{B1}	I _{B2}	V _{CC}	R _L	V _F (V)	t _{rr}			di/dt (A/μs)	R _{th(j-c)} (℃/W)						
V _{CE}	V _{BE}			t _{on}	t _{stg}	t _f						I _F	I _F	V _{BE}		トランジスタ部	ダイオード部					
最大	最大	(A)	(A)	最大	最大	最大	(A)	(A)	(V)	(Ω)	最大	(A)	最大	(A)	(V)	最大	最大					
2.0	2.5	15	0.4	1	12	2	0.4	-0.4	300	20	1.6	15	0.7	15	-2	60	1.25		GL-1	2-48A3A	単相ブリッジ接続	MG15G4GL1
2.0	2.5	20	0.5	1	12	2	0.5	-0.5	300	15	1.6	20	0.7	20	-2	60	1.0		GL-1	2-48A3A	単相ブリッジ接続	MG20G4GL1
2.0	2.5	10	0.25	1	12	2	0.25	0.25	300	30	1.6	10	0.7	10	-2	60	1.56		EL-2	2-64A2A	三相ブリッジ接続	MG10G6EL1
2.0	2.5	10	0.3	1	12	2	0.3	-0.3	300	30	1.6	10	0.7	10	-2	60	1.56		EL-2	2-64A2A	三相ブリッジ接続	MG10G6EL2
2.5	3.5	10	0.2	2	14	6	0.2	-0.6	600	60	1.8	10	2.0	10	-3	60	1.25	3.6	EK-1	2-72A3A	三相ブリッジ接続	MG10G6EK1
2.0	2.5	15	0.4	1	12	2	0.4	-0.4	300	20	1.6	15	0.7	15	-2	60	1.25		EL-2	2-64A2A	三相ブリッジ接続	MG15G6EL1
2.0	2.5	15	0.4	1	10	3	0.4	-0.4	300	20	1.7	15	0.7	15	-2	60	1.56		EL-2	2-64A2A	三相ブリッジ接続	MG15G6EL2
2.0	2.5	15	0.4	1	12	2	0.4	-0.4	300	20	1.7	15	0.7	15	-2	60	1.25	2.8	EL-2	2-64A2A	三相ブリッジ接続	MG15SH6EL1
2.5	3.5	15	0.3	2	11	6	0.3	-0.9	600	40	1.5	15	1.0	15	-3	60	0.83	1.3	EK-2	2-94B1A	三相ブリッジ接続	MG15N6EX1
2.0	2.5	20	0.5	1	12	2	0.5	-0.5	300	15	1.6	20	0.7	20	-2	60	1.0		EL-2	2-64A2A	三相ブリッジ接続	MG20G6EL1
2.0	2.5	20	0.5	1	10	3	0.5	-0.5	300	15	1.7	20	0.7	20	-2	60	1.25		EL-2	2-64A2A	三相ブリッジ接続	MG20G6EL2
2.5	3.5	20	0.4	2	14	6	0.4	-1.2	600	30	1.8	20	2.0	20	-3	60	0.625	1.8	EK-1	2-72A3A	三相ブリッジ接続	MG20G6EK1
2.5	3.5	25	0.5	2	14	6	0.5	-1.5	600	24	1.7	25	1.0	25	-3	100	0.41	1.3	EK-2	2-94B1A	三相ブリッジ接続	MG25N6EX1
2.0	2.5	30	0.6	1	12	2	0.6	-0.6	300	10	1.5	30	1.0	30	-3	100	0.5	1.8	EL-2	2-94A2A	三相ブリッジ接続	MG30G6EL1
2.0	2.5	30	0.6	1	12	3	0.6	-0.6	300	10	1.6	30	0.7	30	-2	60	0.625	1.8	EL-1	2-27A4A	三相ブリッジ接続	MG30G6EL2
2.0	2.5	50	1.0	1	12	2	1.0	-1.0	300	6	1.5	50	1.0	50	-3	100	0.41	1.3	EL-2	2-94A2A	三相ブリッジ接続	MG50G6EL1
2.0	2.5	75	2.0	2	12	3	2.0	-2.0	300	4	1.7	75	1.0	75	-3	100	0.36	1.3	EL-2	2-94A2A	三相ブリッジ接続	MG75G6EL1
2.0	2.5	75	2.0	2	12	4	2.0	-3.0	300	4	1.7	75	1.0	75	-3	100	0.36	1.3	EL-2	2-94A2A	三相ブリッジ接続	MG75SH6EL1

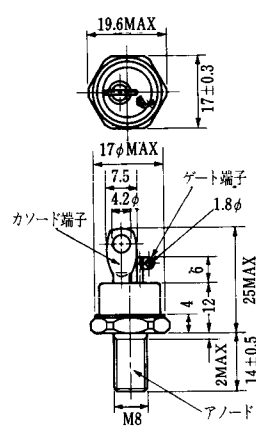
FD-1



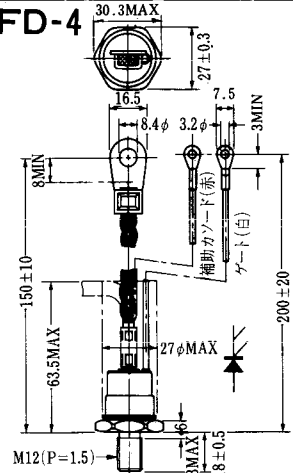
FD-2



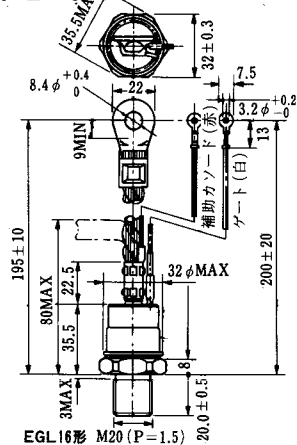
FD-3



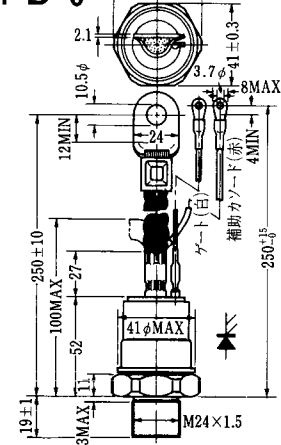
FD-4



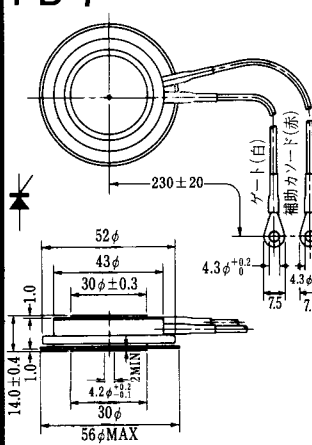
FD-5



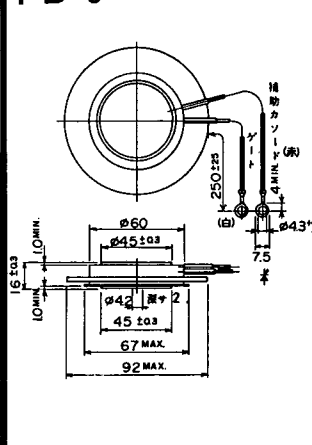
FD-6

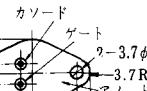


FD-7

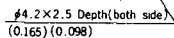


FD-8

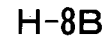
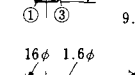
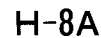
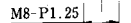




Unit in mm(inch)

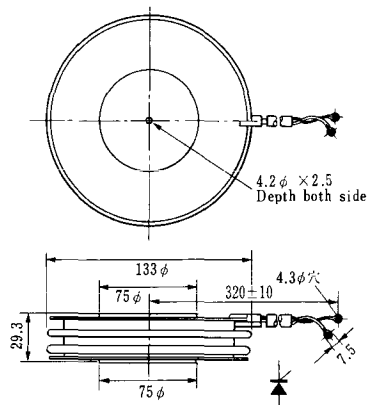


Unit in mm(inch)

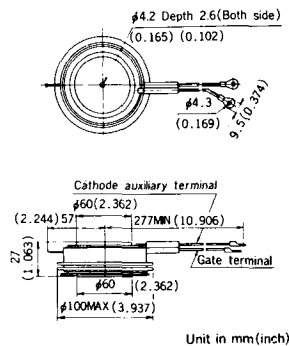


- ①アノード
- ②カソード
- ③ゲート

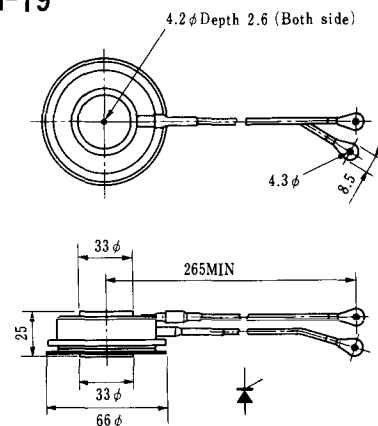
H-17



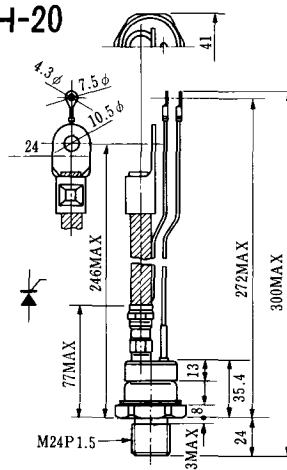
H-18



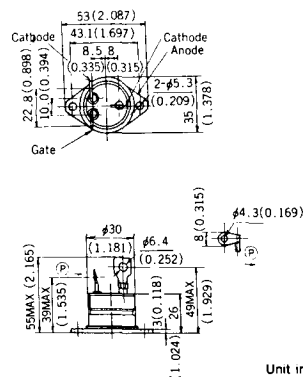
H-19



H-20

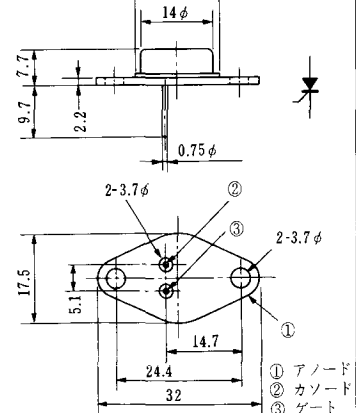


H-21

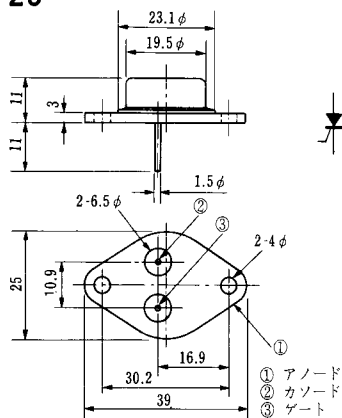


Unit in mm (inch)

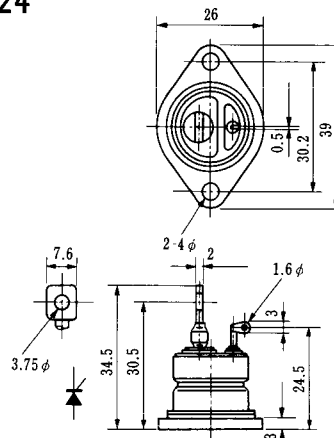
H-22



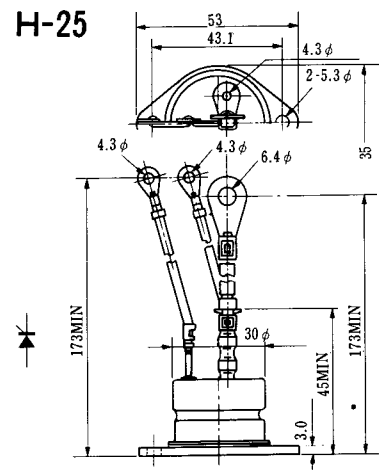
H-23



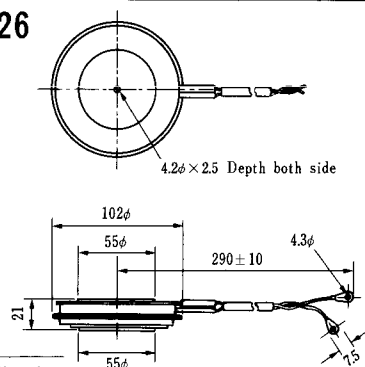
H-24



H-25

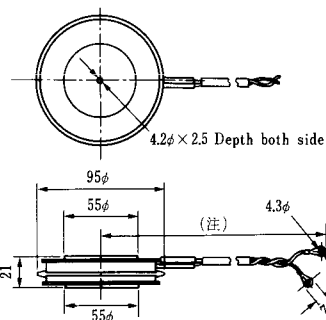


H-26



Type	Direction of polarity
CA12	

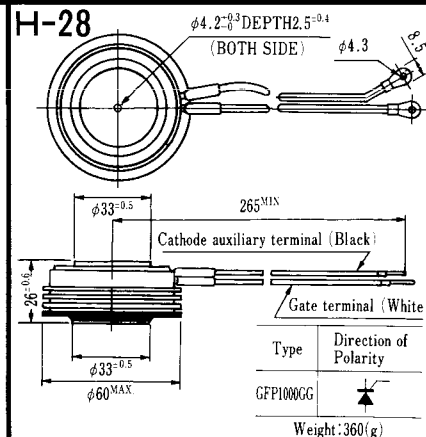
H-27



Type	Direction of polarity
CF11V	

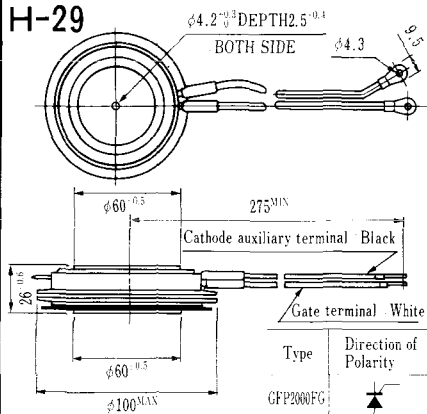
(注) CC11V: 400 $\pm$ 10
CF11V: 250 $\pm$ 10

H-28



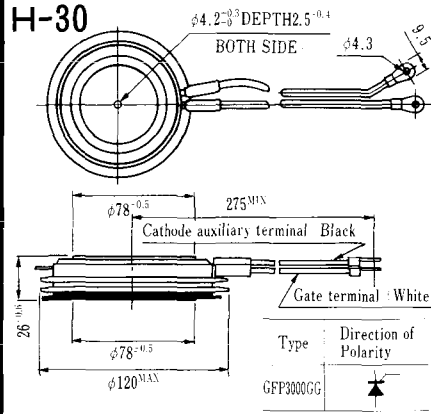
Note: The thickness is a dimension in press at the rated mounting force.

H-29



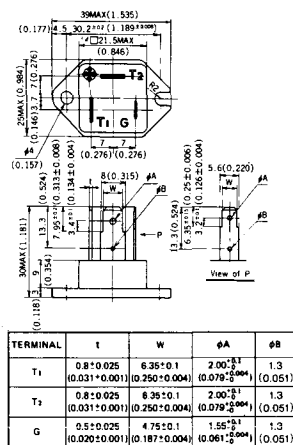
Note : The thickness is a dimension in press at the rated mounting force. Weight: 870(g)

H-30



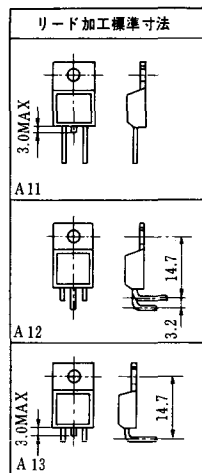
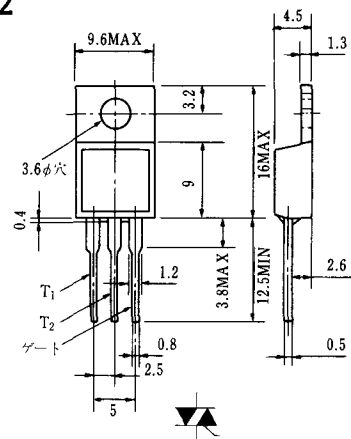
Note : The thickness is a dimension in press at the rated mounting force. Weight: 1,460(g)

HT-1

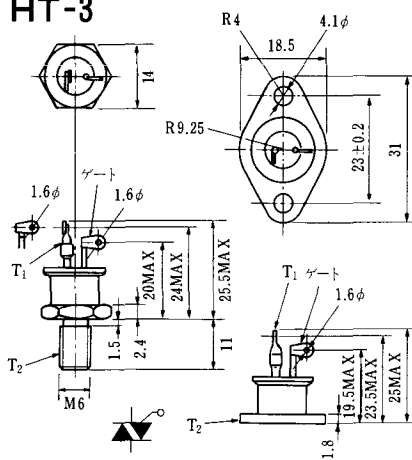


Unit in mm (inch)

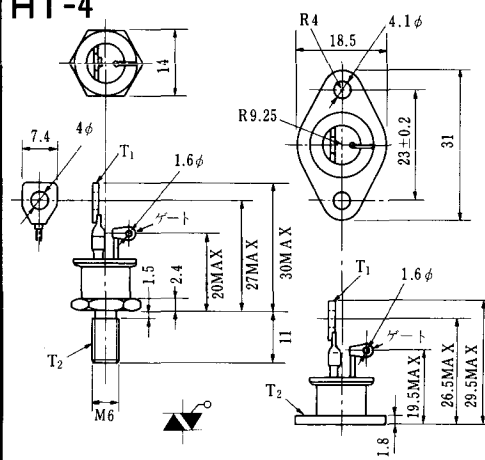
HT-2



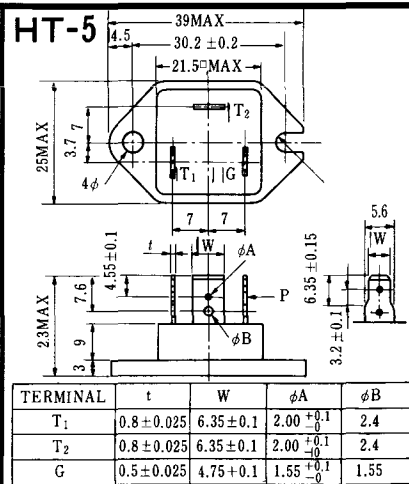
HT-3



HT-4

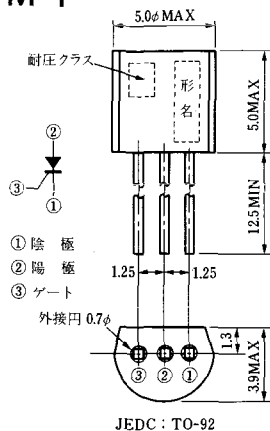


HT-5

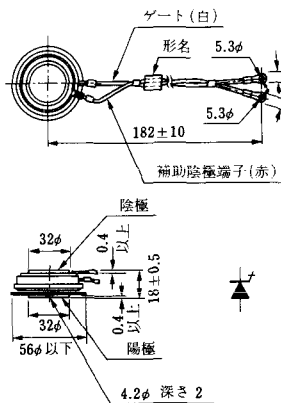


《寸法図単位：mm》

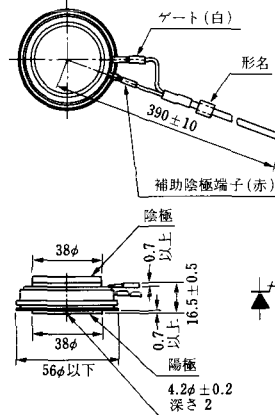
M-1



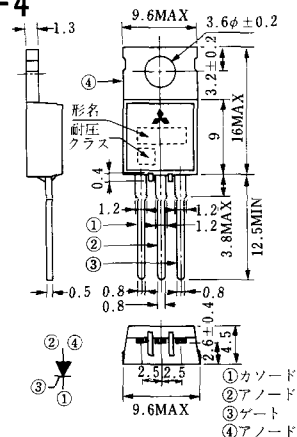
M-2



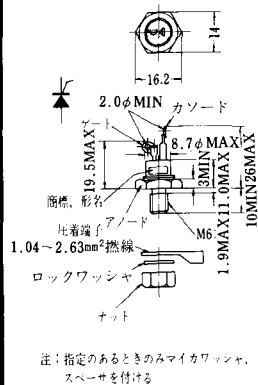
M-3



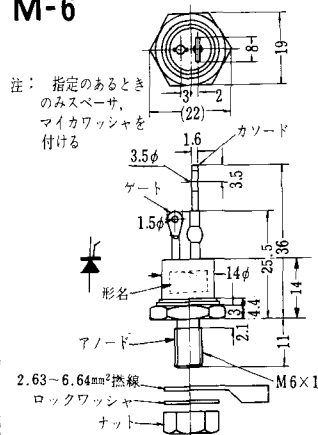
M-4



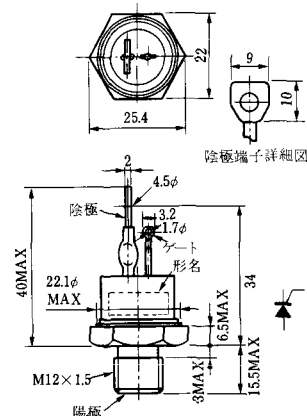
M-5



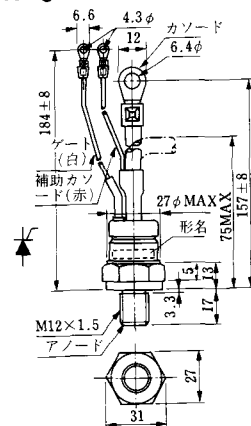
M-6



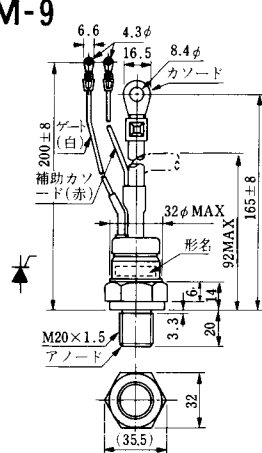
M-7



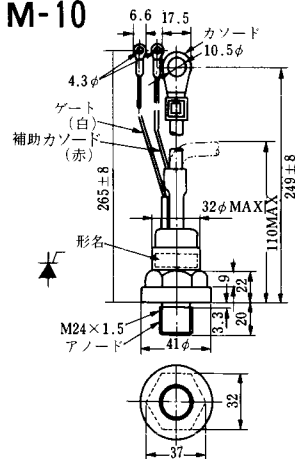
M-8



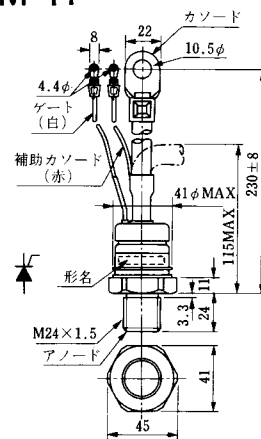
M-9



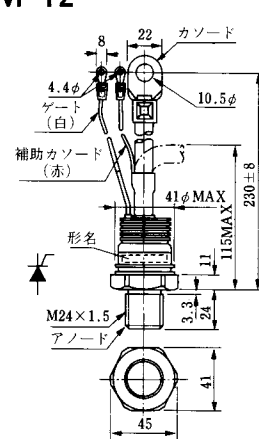
M-10



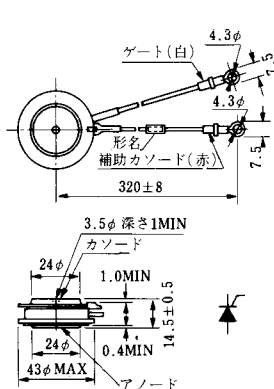
M-11



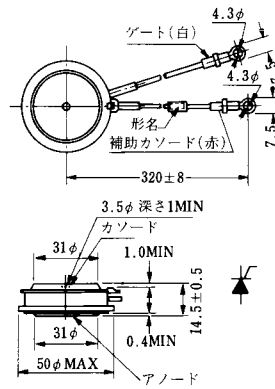
M-12



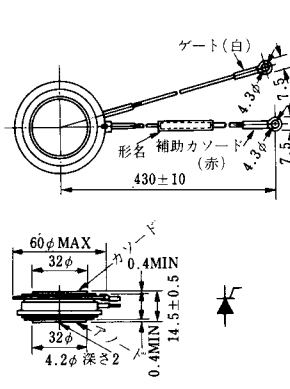
M-13



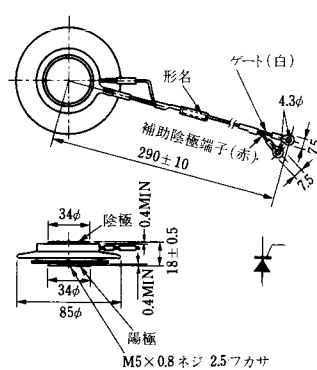
M-14



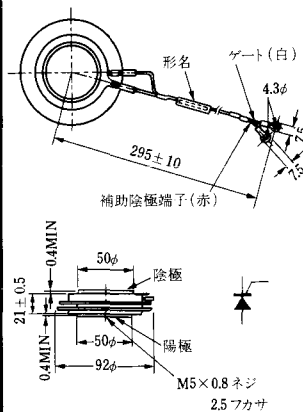
M-15



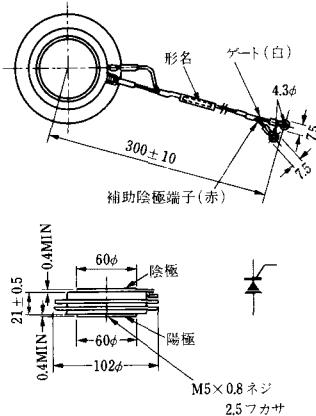
M-16



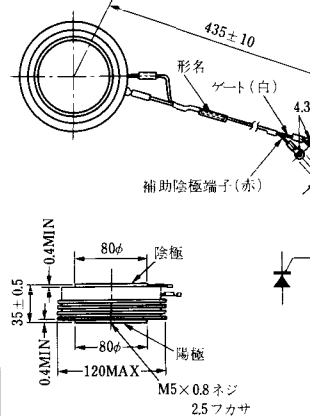
M-17



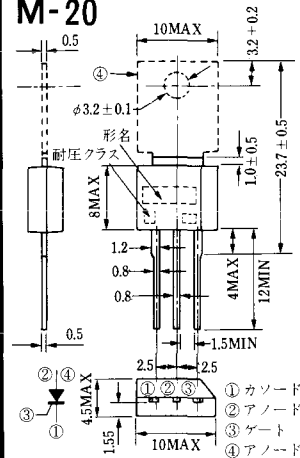
M-18



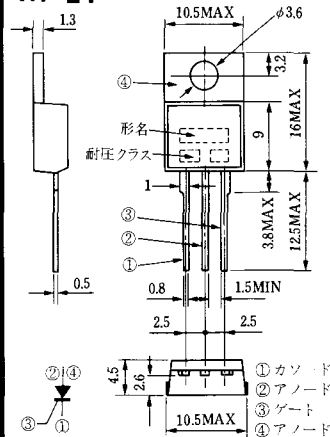
M-19



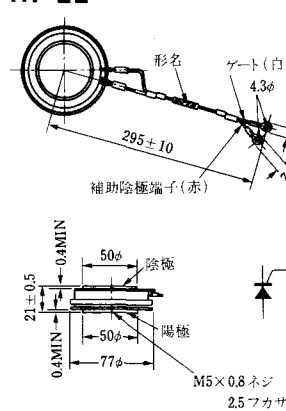
M-20



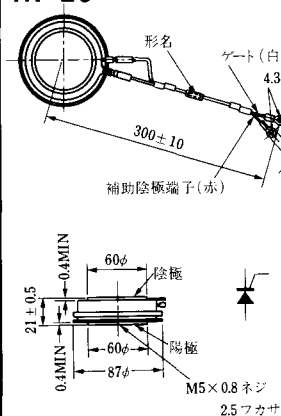
M-21



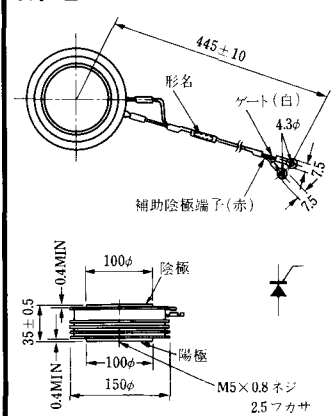
M-22



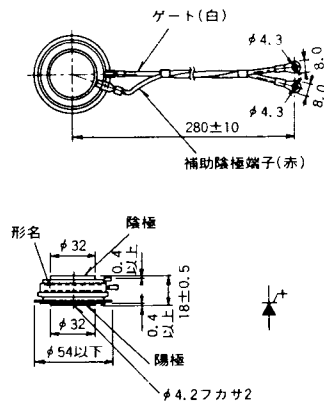
M-23



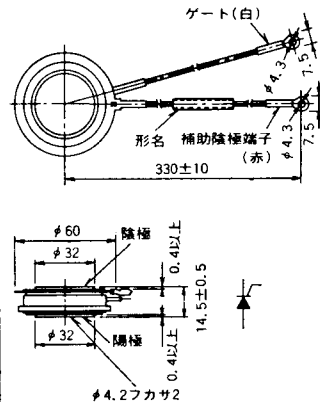
M-24



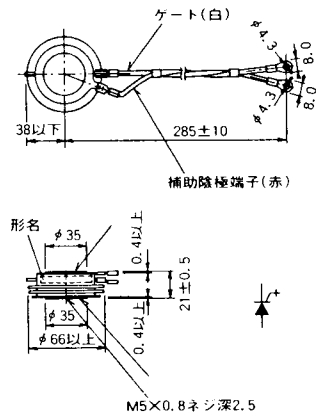
M-25



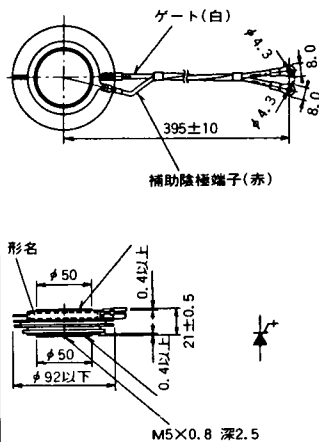
M-26



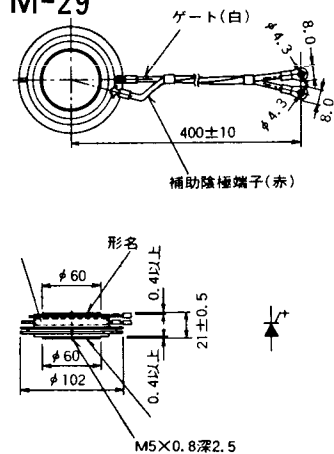
M-27



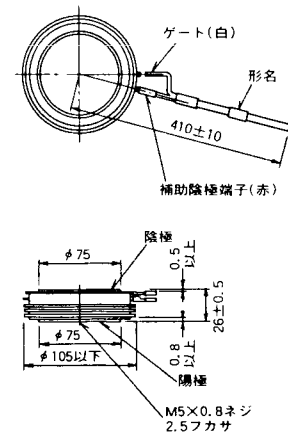
M-28



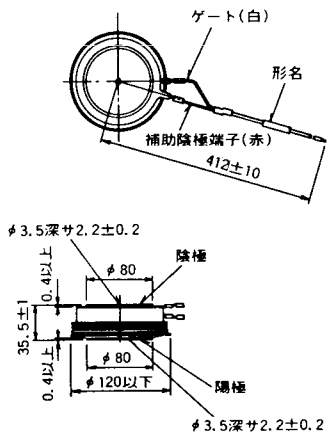
M-29



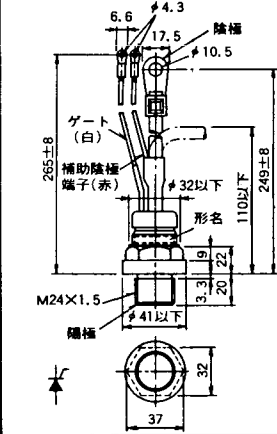
M-30



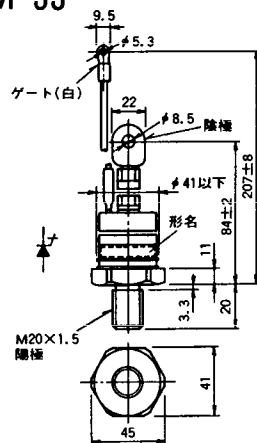
M-31



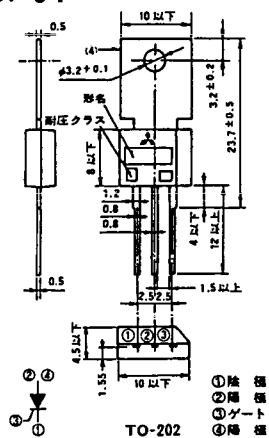
M-32



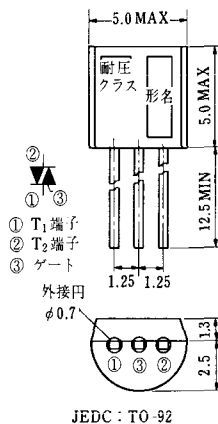
M-33



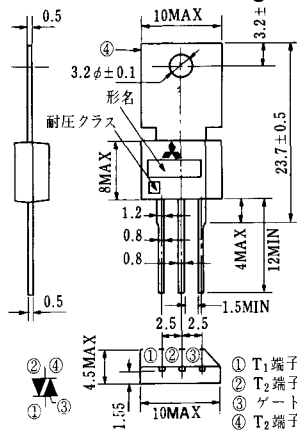
M-34



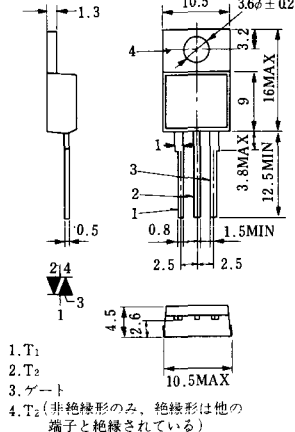
MT-1



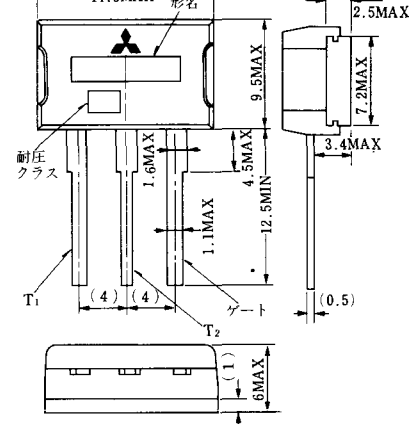
MT-2



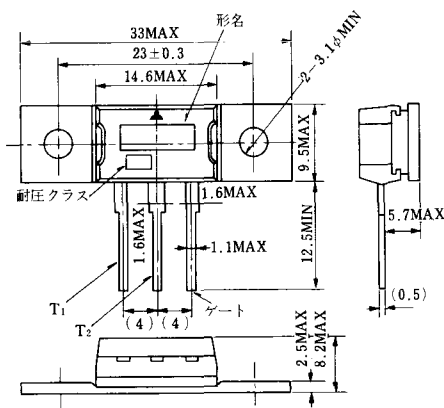
MT-3



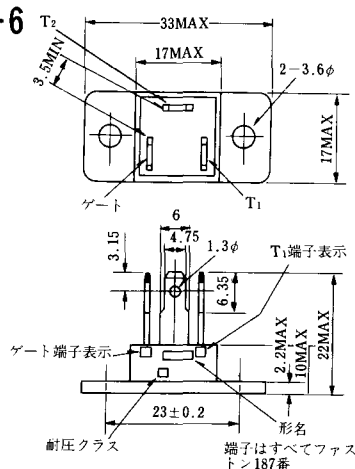
MT-4



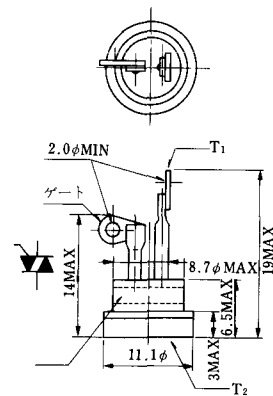
MT-5



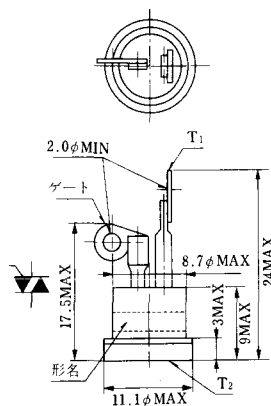
MT-6



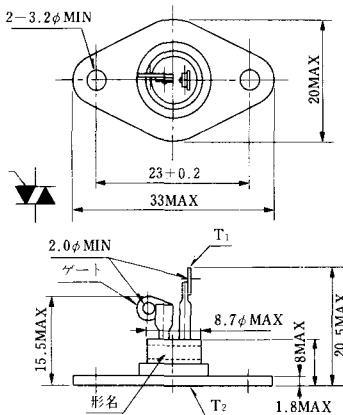
MT-7



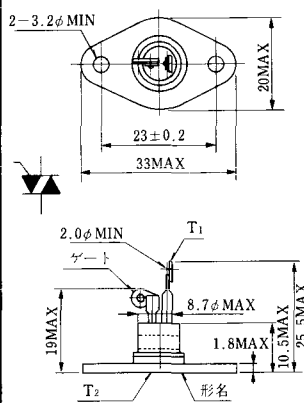
MT-8



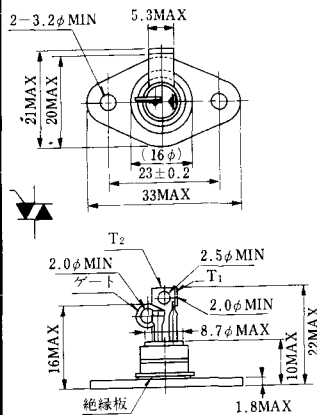
MT-9



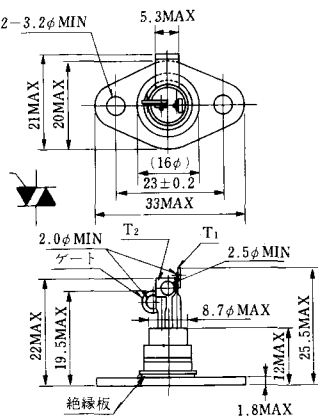
MT-10



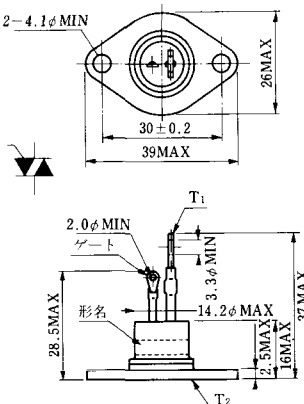
MT-11



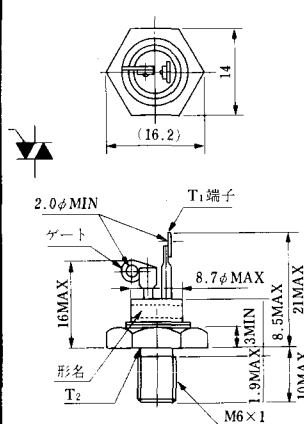
MT-12



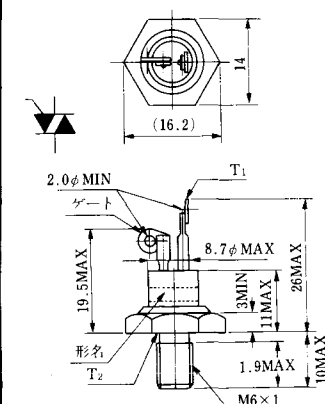
MT-13



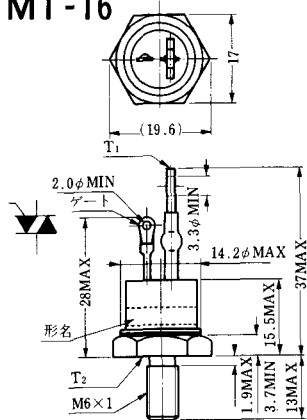
MT-14



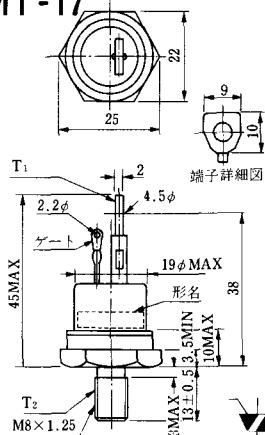
MT-15



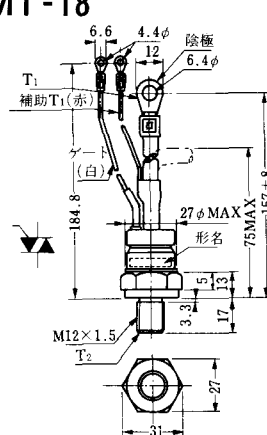
MT-16



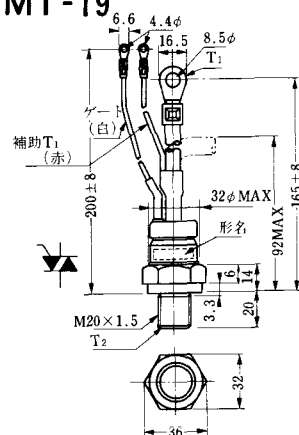
MT-17



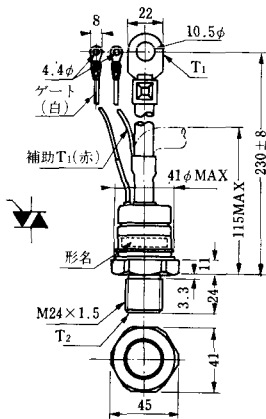
MT-18



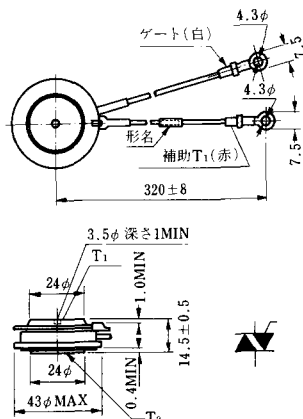
MT-19



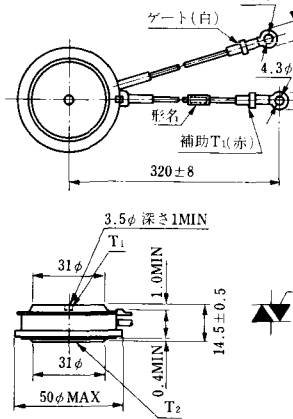
MT-20



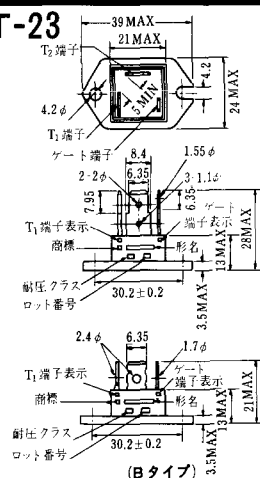
MT-21



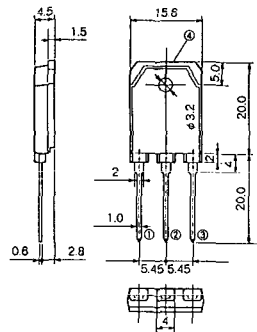
MT-22



MT-23



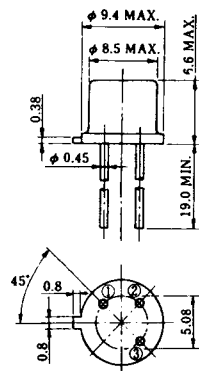
MT-24



TO - 3P

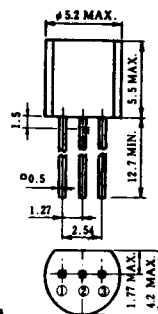
- ① T1 端子
- ② T2 端子
- ③ ゲート 端子
- ④ T2 端子

N-1



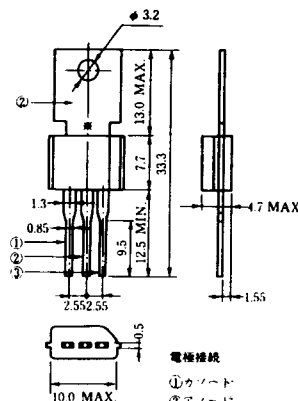
電極接続
① カソード
② ゲート
③ アノード

N-2



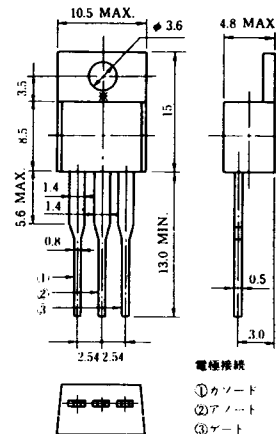
電極接続
① ヤート
② アノード
③ カソード

N-3



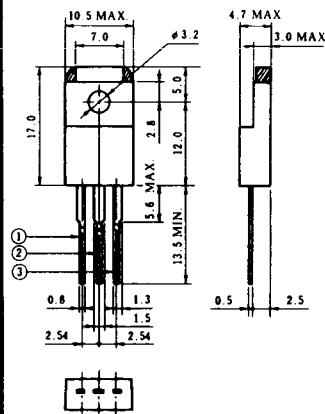
電極接続
① カソード
② アノード
③ ゲート

N-4

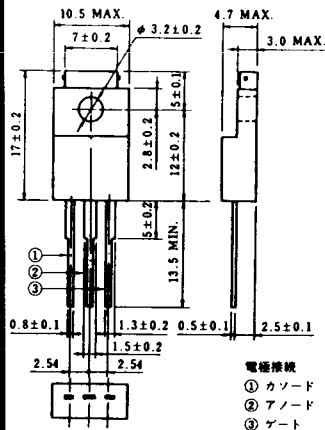


電極接続
① カソード
② アノード
③ ゲート

N-5

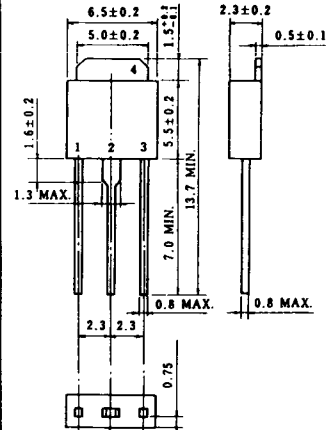


N-6

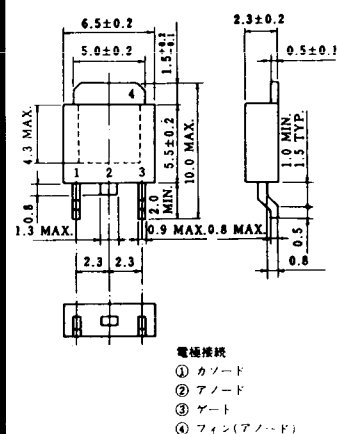


電極接続
① カソード
② アノード
③ ゲート

N-7

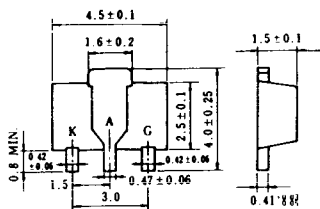


N-8



電極接続
① カソード
② アノード
③ ゲート
④ フィン(アノード)

N-9



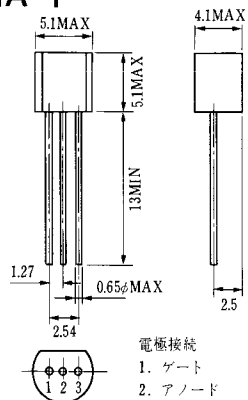
電極接続

K : カソード

A : アノード

G : ゲート

NA-1

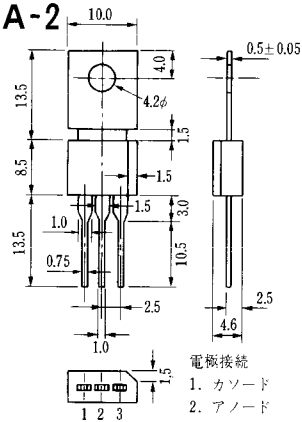


電極接続

1. ゲート
2. アノード
3. カソード

JEDEC: TO-92

NA-2



電極接続

1. カソード
2. アノード
3. ゲート

JEDEC: TO-202AA



29RD



39RC
59RC
39RF
59RF



68RP, 88RP, 108RP, 68RS,
88RS, 78RT, 88RLD, 88RLE,
88RLF, 88RLG, 88RLH, 108RLE



158RP, 208RP, 128RS, 178RS,
158RT, 178RLD, 178RLE,
178RLF, 178RLG, 178RLH,
208RLE



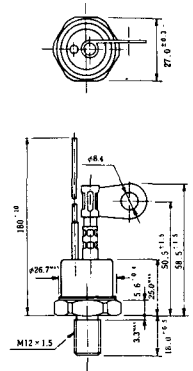
308AP, 408AP, 508AP, 278RS,
358RS, 258RT, 258RLD, 258RLQ,
258RLH, 308RLE, 308RLF,
358RLE



89RW^r_JL
129RW^r_JL

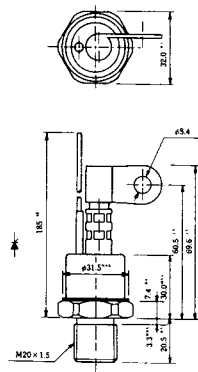


89RW
129RW



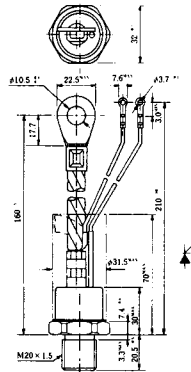
NI-9

259RW
309RW



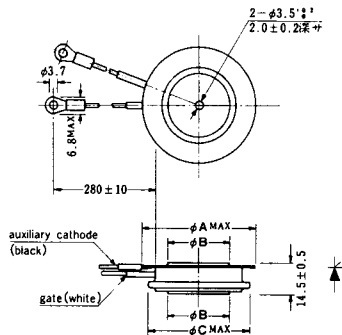
NI-10

259RW_JL
309RW_JL



NI-11

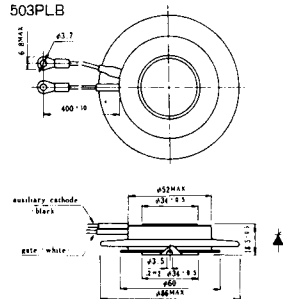
103PA
253PA
503PA
553PA
803PA
103PLE
103PLG
103PLH
203PLG
253PLE
253PLH
353PLG
403PLE
403PLH



型名	103PA, 103PLE, 103PLG, 103PLH	253PA, 203PLG, 253PLE, 253PLH	503PA, 553PA, 353PLG, 403PLE, 403PLH	803PA
寸法				
A	40	46	55.5	55.5
B	16	22	30	32
C	36	42	50.5	50.5

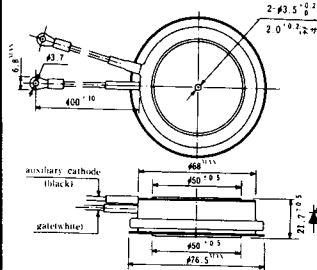
NI-12

403PAB
503PAB
503PLB



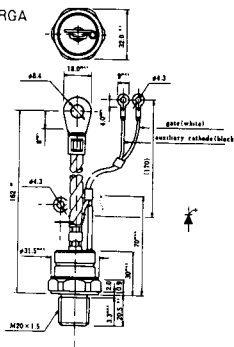
NI-13

1003PA
1003PAB
1003PLF
1003PLH
1503PA



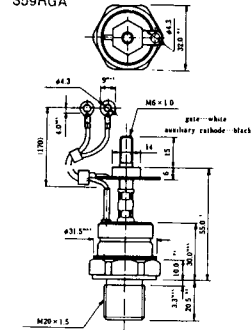
NI-14

358RGA



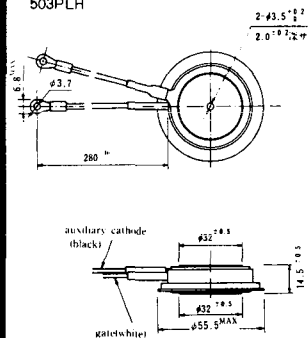
NI-15

359RGA



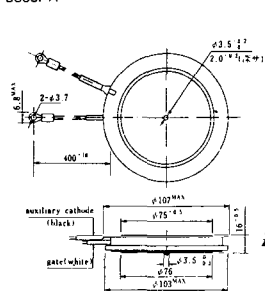
NI-16

503PLF
503PLH



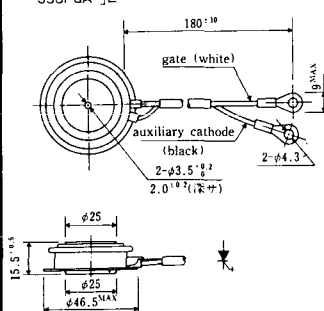
NI-17

3003PA



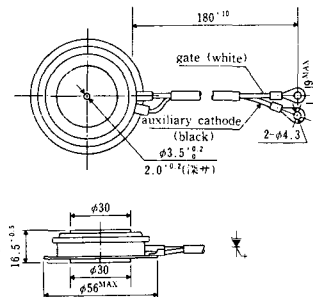
NI-18

353PGA「E



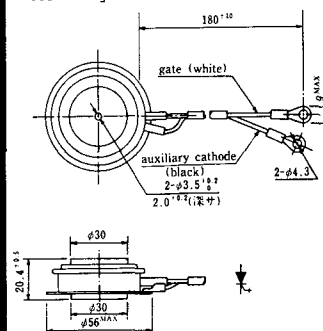
NI-19

603PGA, 603PGA「A, 803PGA



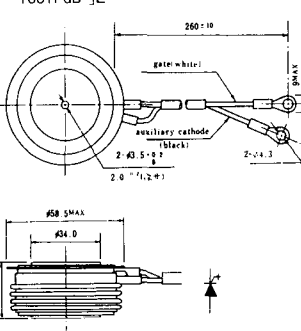
NI-20

603PGA「E



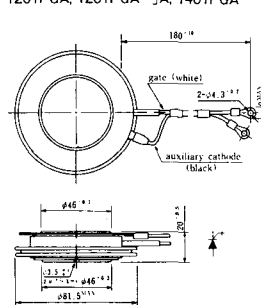
NI-21

1001PGB「E



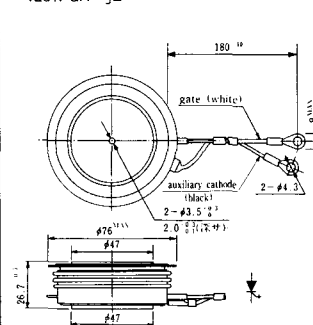
NI-22

1201PGA, 1201PGA「A, 1401PGA



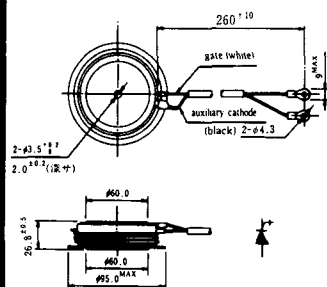
NI-23

1201PGA「E



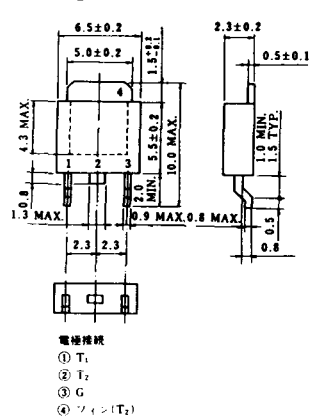
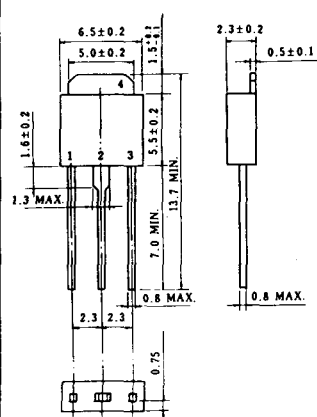
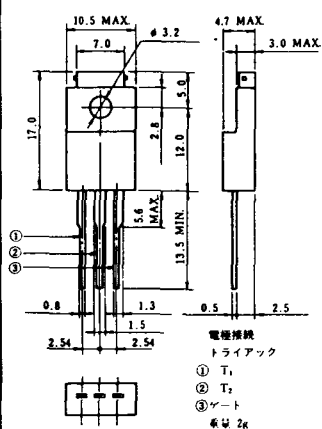
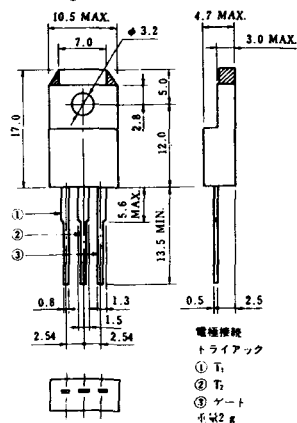
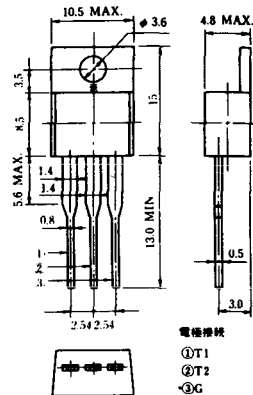
NI-24

2001PGB[®] JE

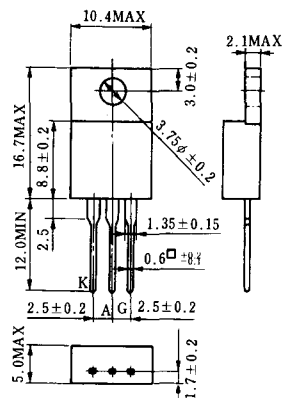


NI-25

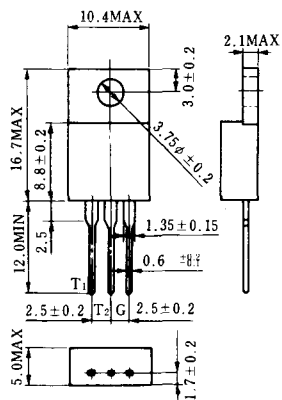
NI-26



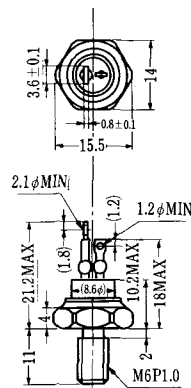
S-1



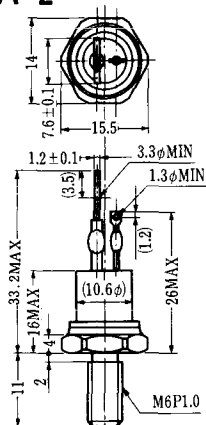
ST-1



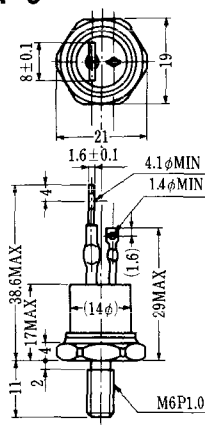
SA-1



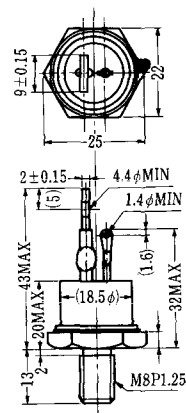
SA-2



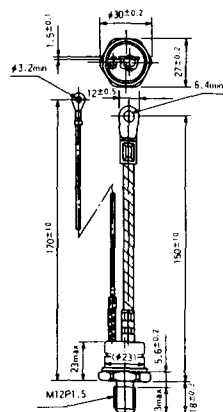
SA-3



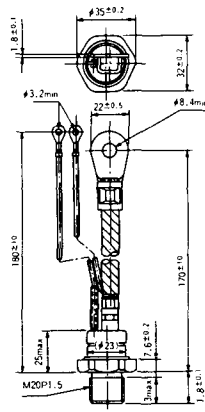
SA-4



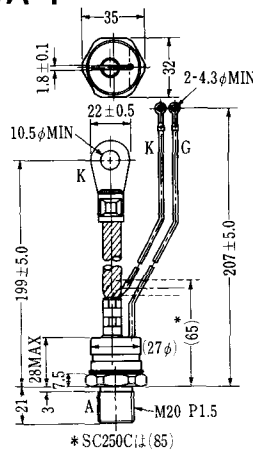
SA-5



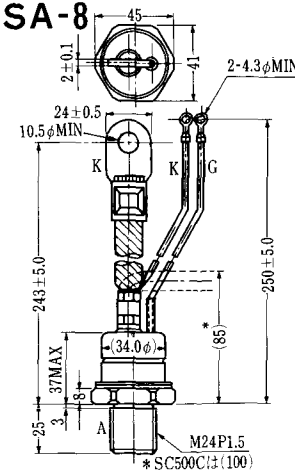
SA-6



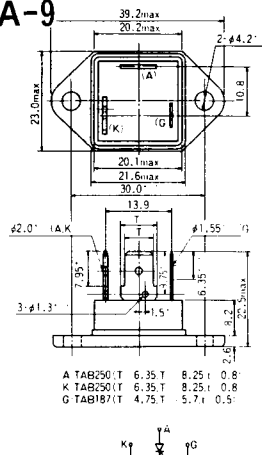
SA-7



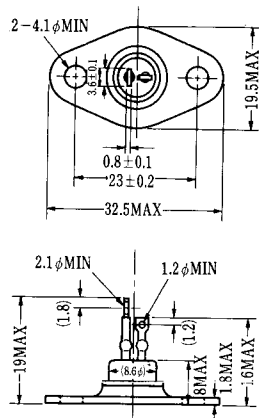
SA-8



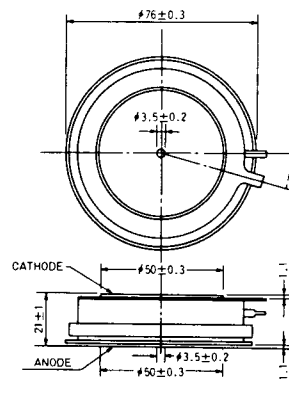
SA-9



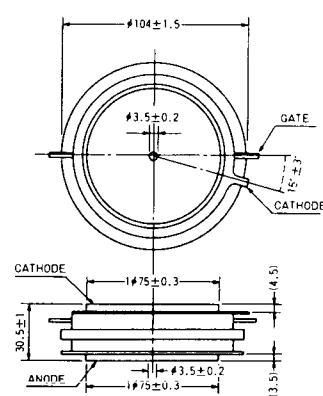
SA-10



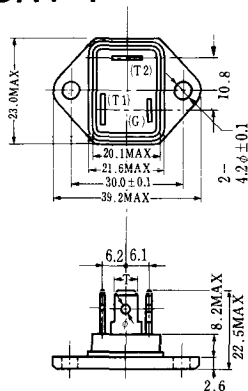
SA-11



SA-12

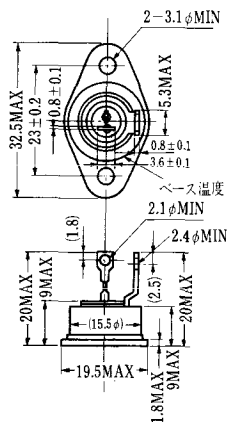


SAT-1

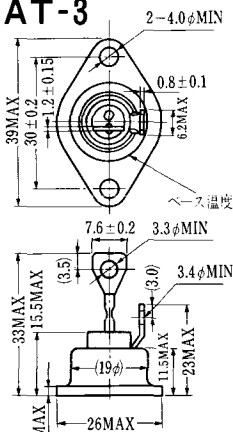


T1端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
T2端子:ファストン250($T=6.35$, $t=0.8$, $\phi=1.65$)
G端子:ファストン187($T=4.75$, $t=0.5$, $\phi=1.3$)

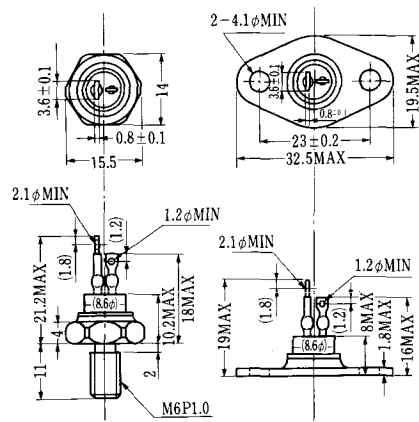
SAT-2



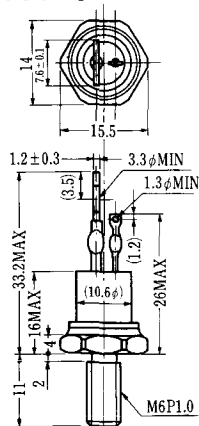
SAT-3



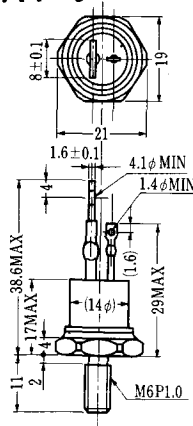
SAT-4



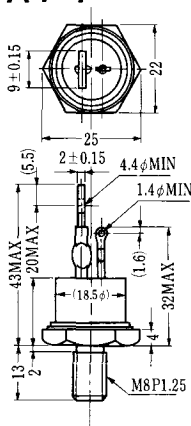
SAT-5



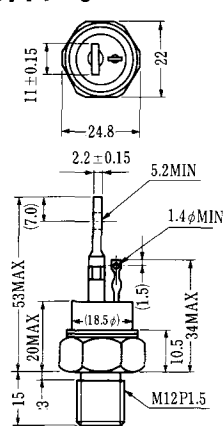
SAT-6



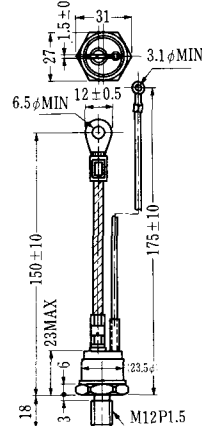
SAT-7



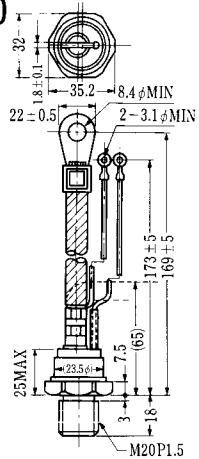
SAT-8



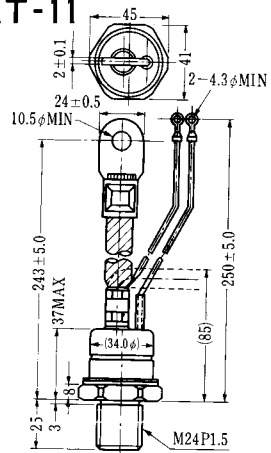
SAT-9



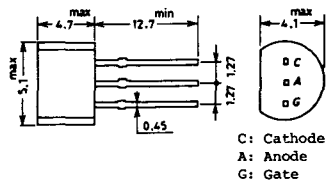
SAT-10



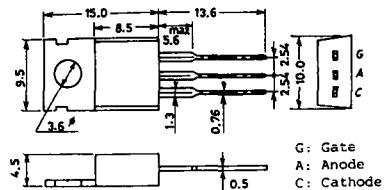
SAT-11



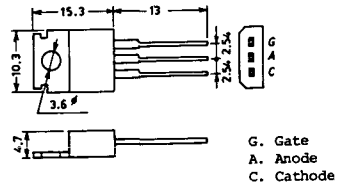
SY-1(1096A)



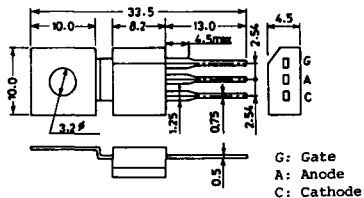
SY-2(1151)



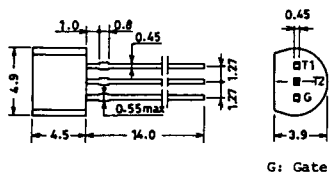
SY-3(1104)



SY-4(1150)

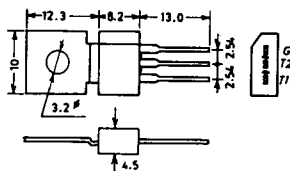


1097A

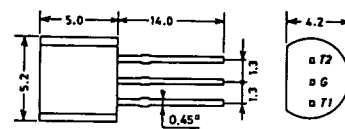


G: Gate

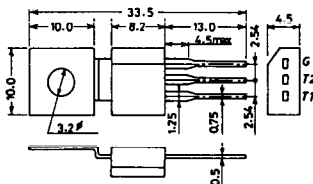
1102



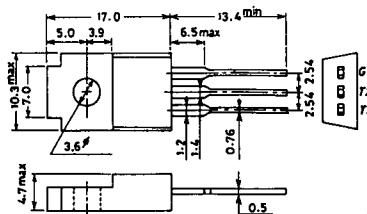
1141



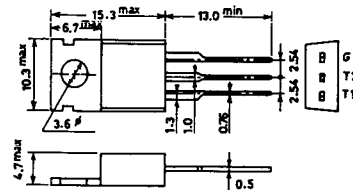
1142



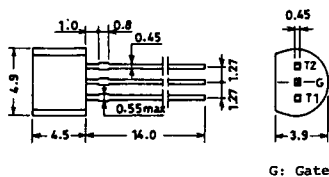
1144



1155

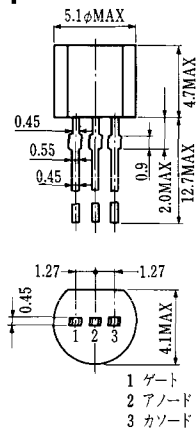


1192A

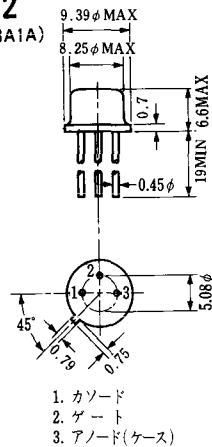


G: Gate

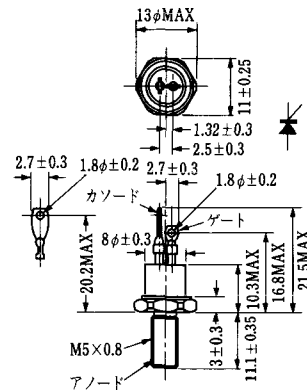
T-1 (13-5A1A)



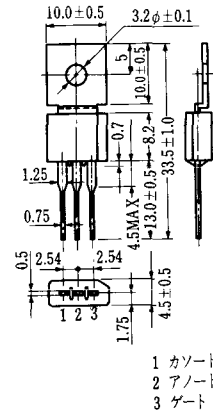
T-2 (13-8A1A)



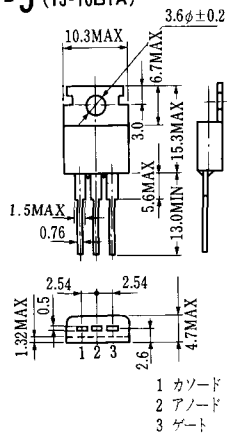
T-3 (13-8C1A)



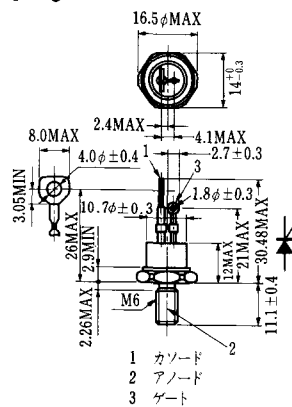
T-4 (13-10A1A)



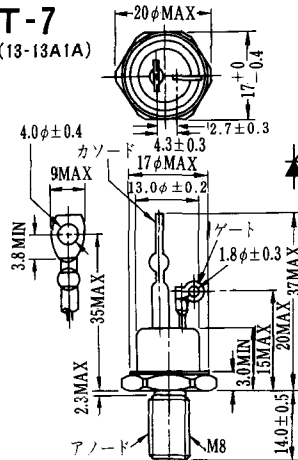
T-5 (13-10B1A)



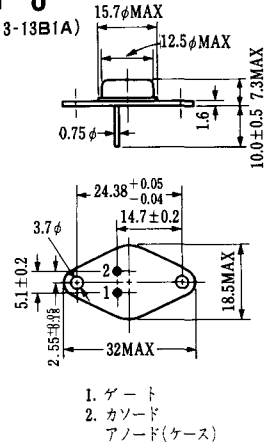
T-6 (13-11D1A)



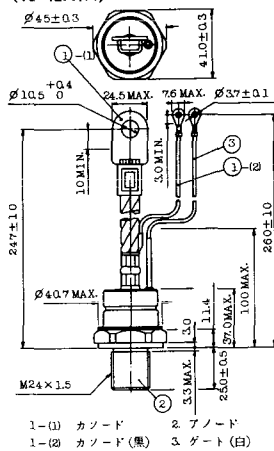
T-7 (13-13A1A)



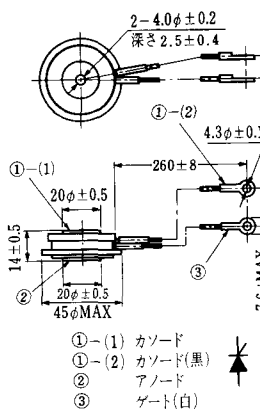
T-8 (13-13B1A)



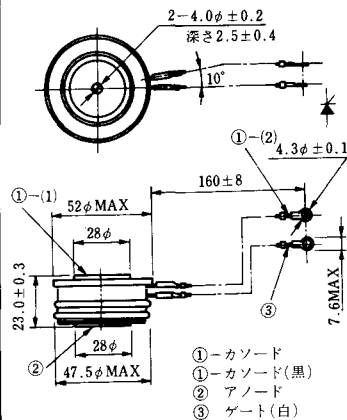
T-17 (13-42A1A)



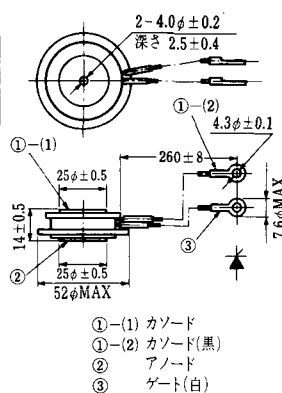
T-18 (13-45D1A)



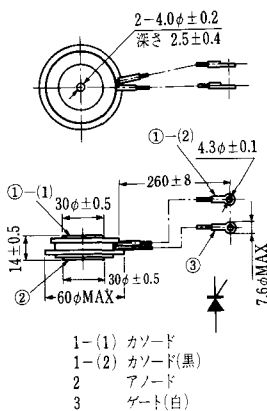
T-19 (13-52B1A)



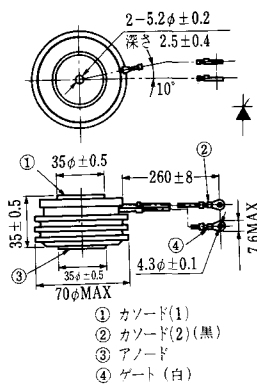
T-20 (13-52C1A)



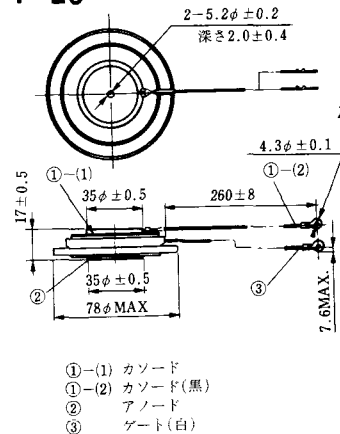
T-21 (13-60A1A)



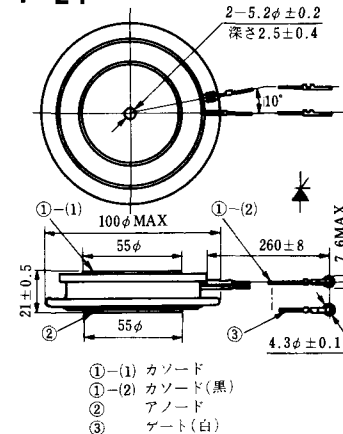
T-22 (13-70C1A)



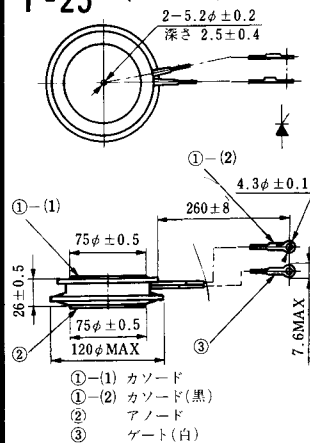
T-23 (13-78A1A)



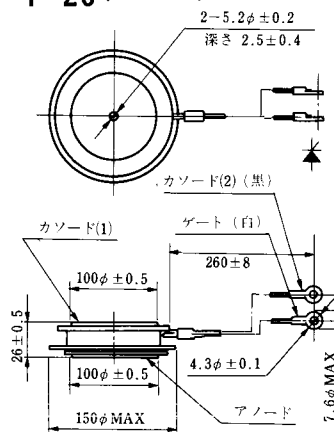
T-24 (13-100C1A)



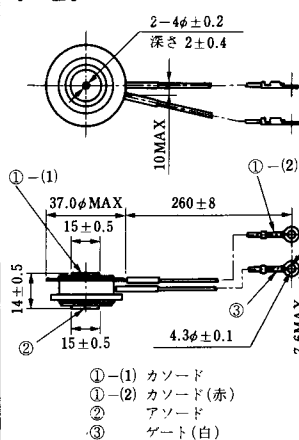
T-25 (13-120A2A)



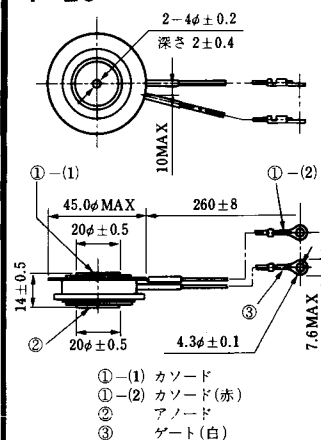
T-26 (13-150A1A)



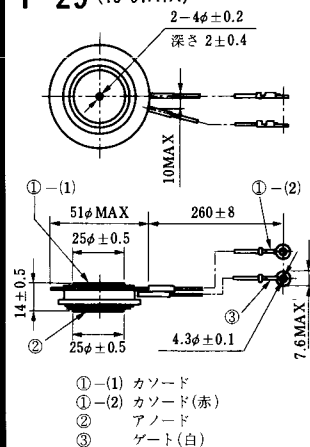
T-27 (13-37A1A)



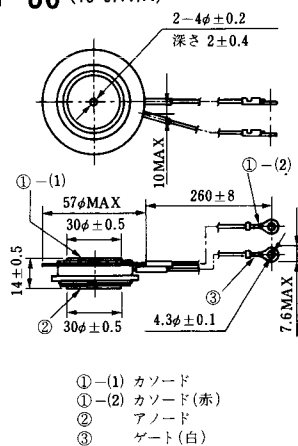
T-28 (13-45E1A)



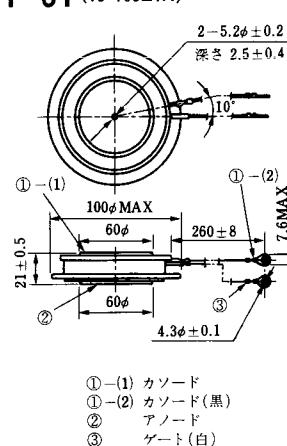
T-29 (13-51A1A)



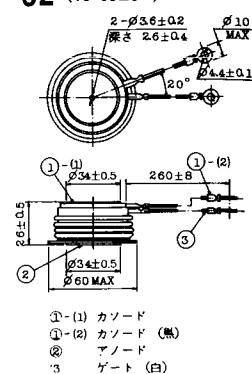
T-30 (13-57A1A)



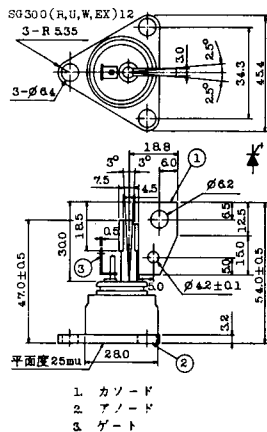
T-31 (13-100E1A)



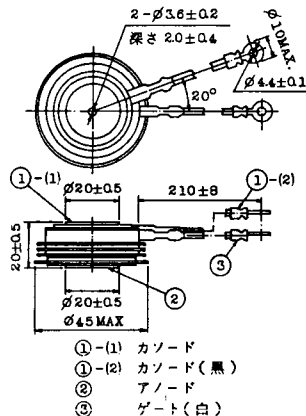
T-32 (13-60E3A)



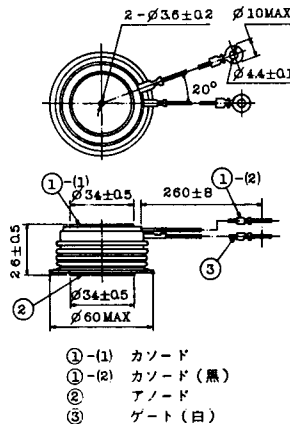
T-41 (13-28A2A)



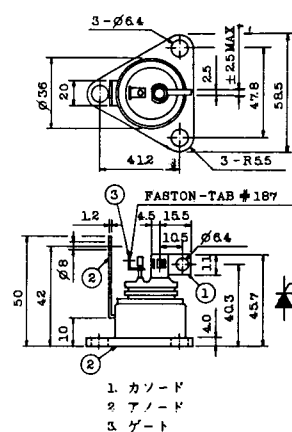
T-42 (13-45F1A)



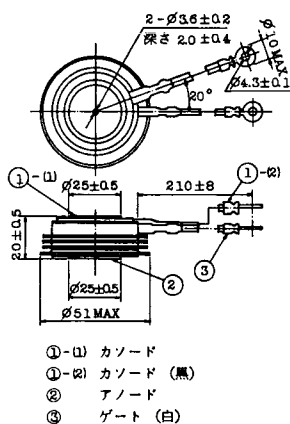
T-43 (13-60E2A)



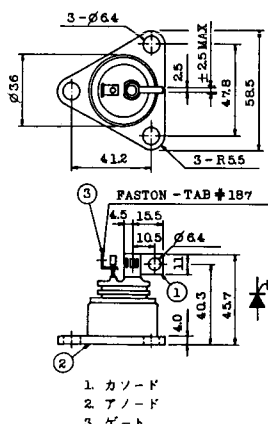
T-44 (13-36A1A)



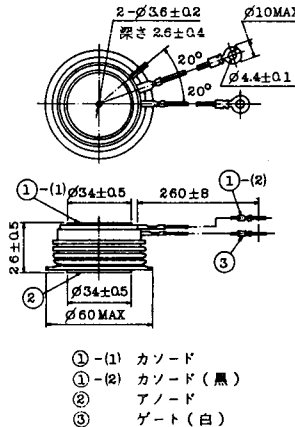
T-45 (13-51B1A)



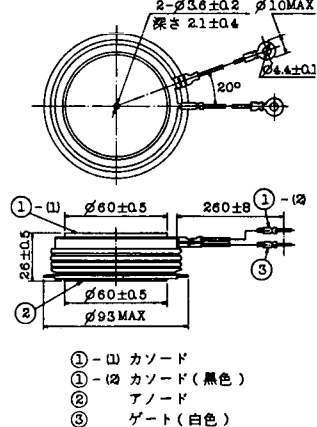
T-46 (13-36B1A)



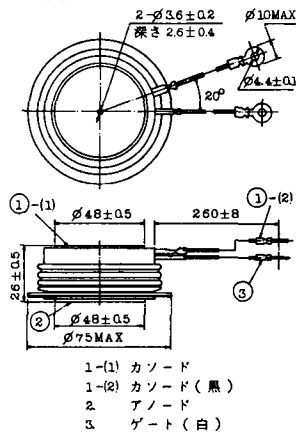
T-47 (13-60E1A)



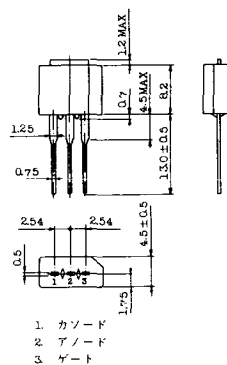
T-48 (13-93C1A)



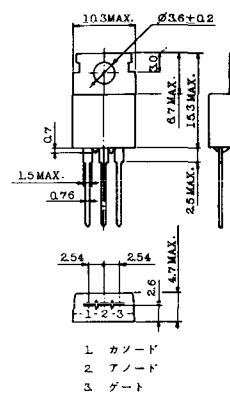
T-49 (13-75A1A)



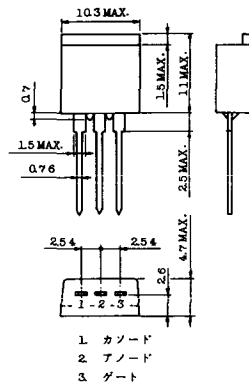
T-50 (13-10A3A)



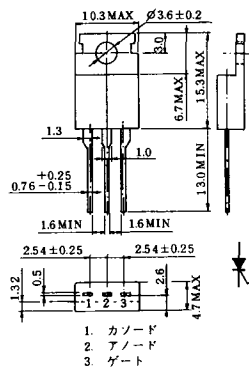
T-51 (13-10D1A)



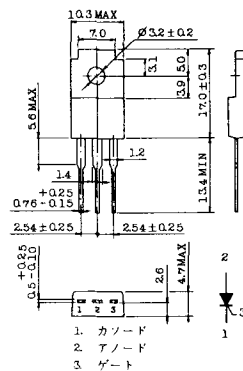
T-52 (13-10D2A)



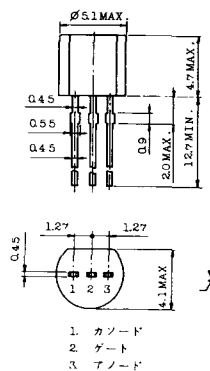
T-53 (13-10E1B)



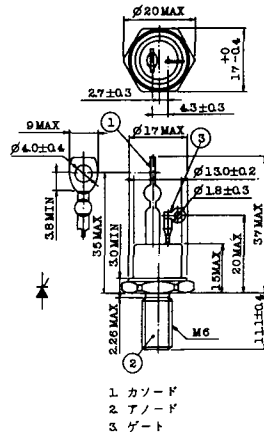
T-54 (13-10F1B)



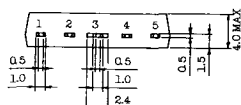
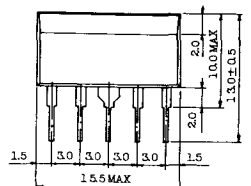
T-55 (13-5A1D)



T-56 (13-13C1A)

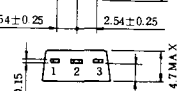
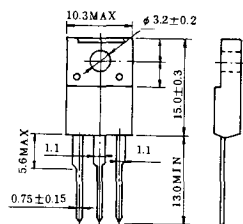


T-57 (12-16C1A)



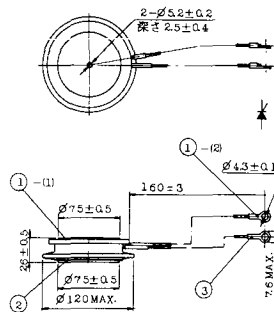
1. アノード (主)
2. ゲート (主)
3. カソード (共通)
4. ゲート (補助)
5. アノード (補助)

T-58 (13-10H1B)



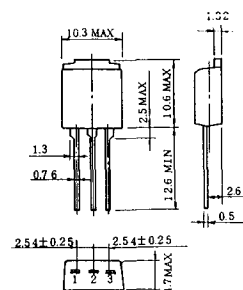
1. カソード
2. アノード
3. ゲート

T-59 (13-120A1A)



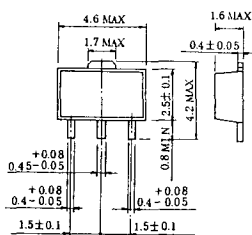
- 1-11 カソード
- 1-12 カソード (黒)
- 2 アノード
- 3 ゲート (白)

T-60



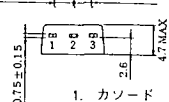
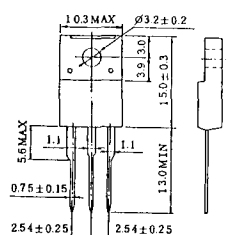
1. カソード
2. アノード
3. ゲート

T-61 (13-5B1A)



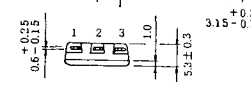
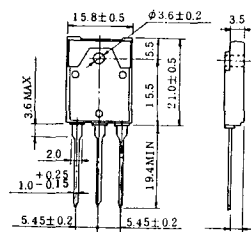
1. ゲート
2. アノード
3. カソード

T-62 (13-10H1A)



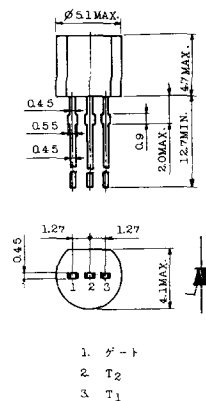
1. カソード
2. アノード
3. ゲート

T-63 (13-16A1B)

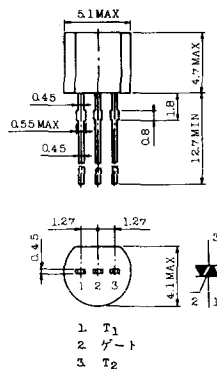


1. カソード
2. アノード
3. ゲート

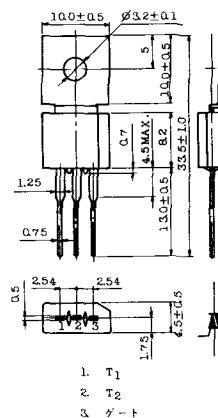
TT-1



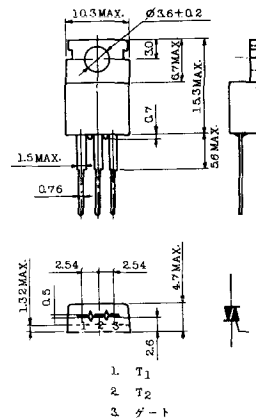
TT-2



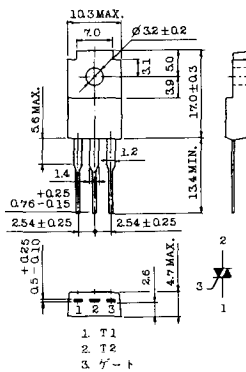
TT-3



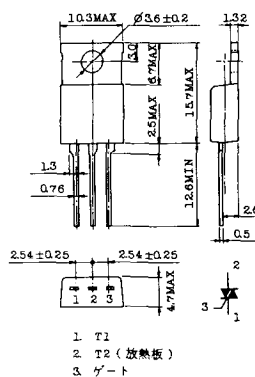
TT-4



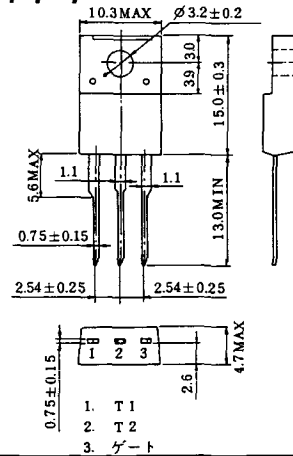
TT-5



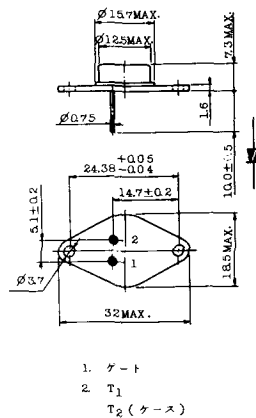
TT-6



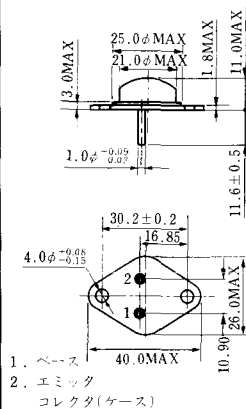
TT-7



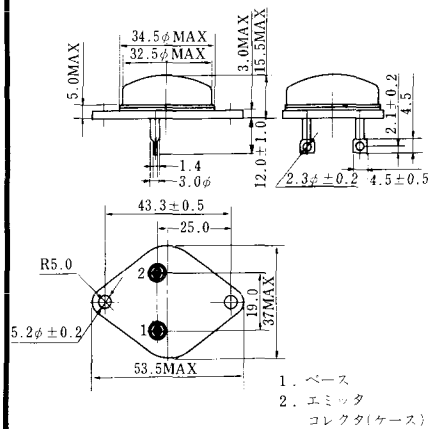
TT-8



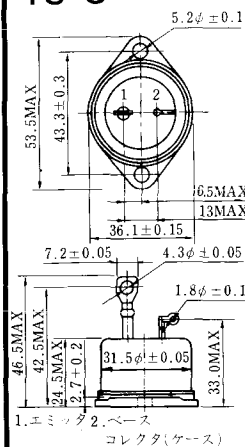
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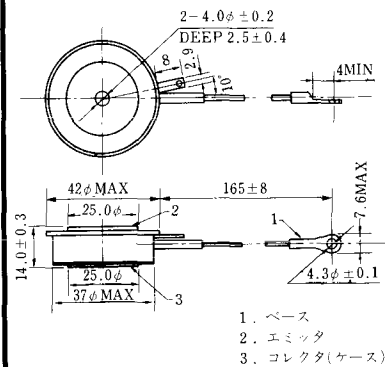
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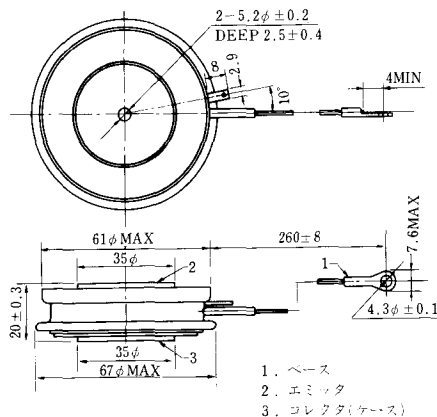
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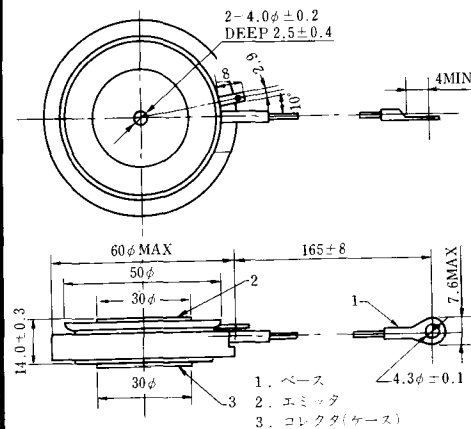
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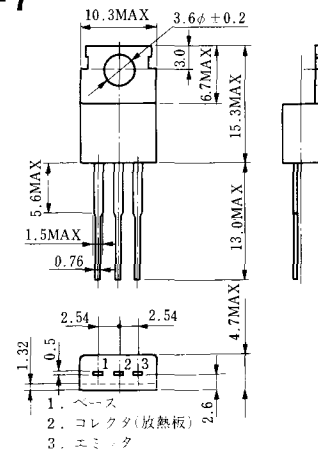
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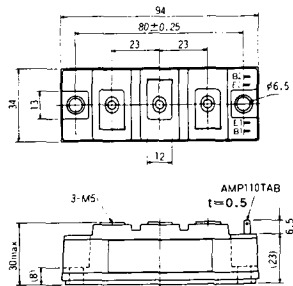
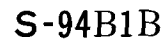
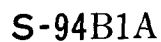
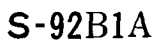
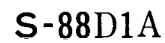
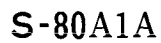


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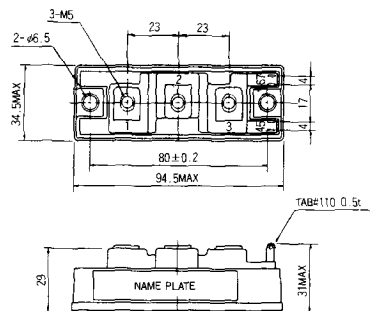


TS-7

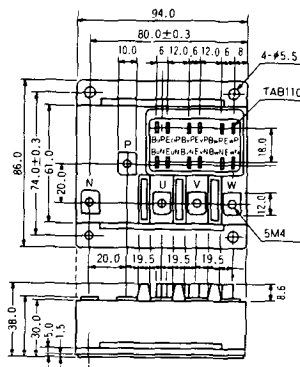




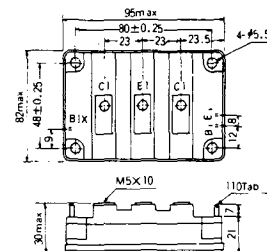
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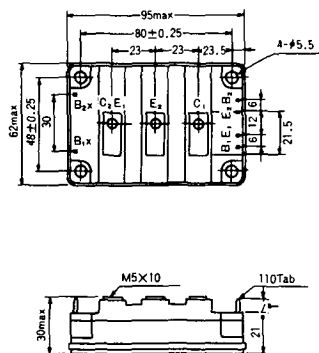
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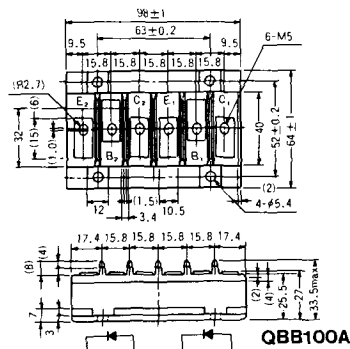
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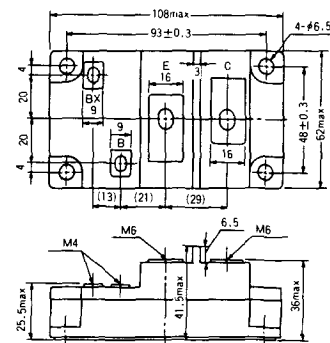
S-95B1A



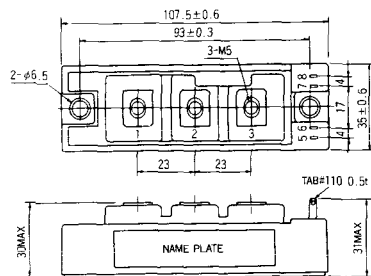
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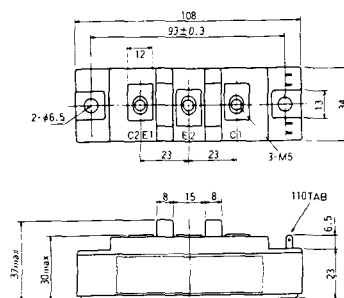
S-108A2A



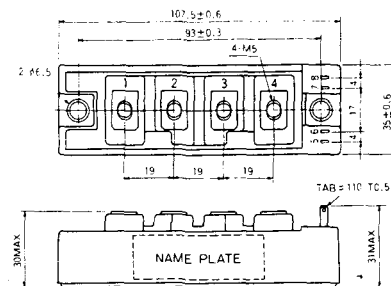
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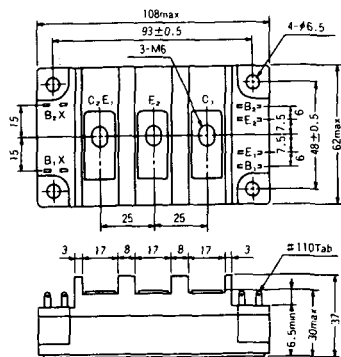
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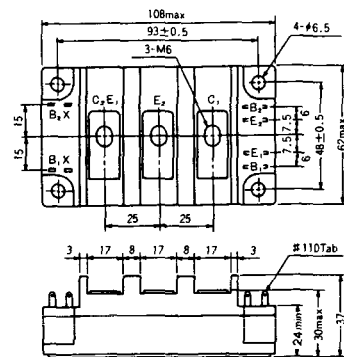
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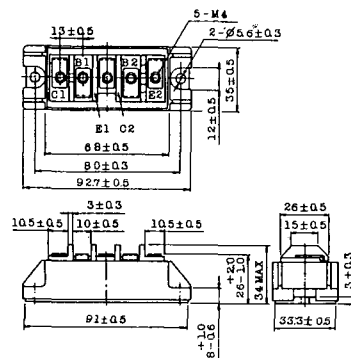
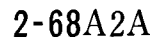
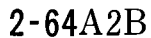
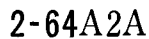
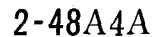
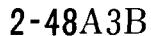


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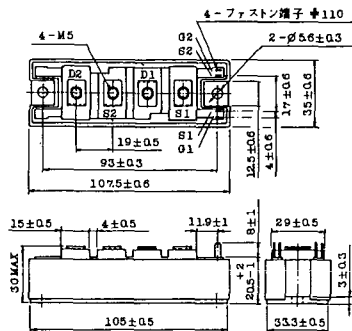


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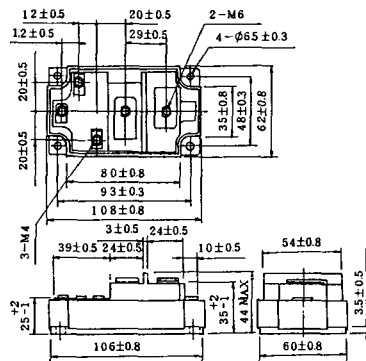




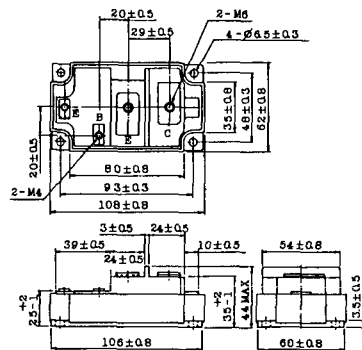
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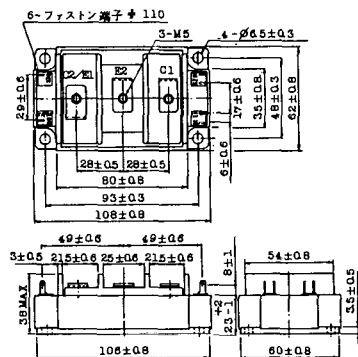
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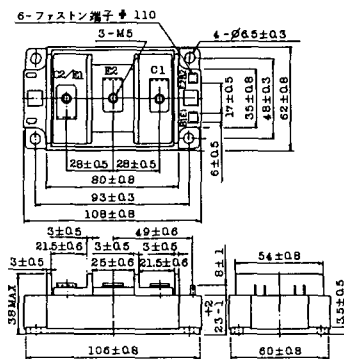
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2-109B3A

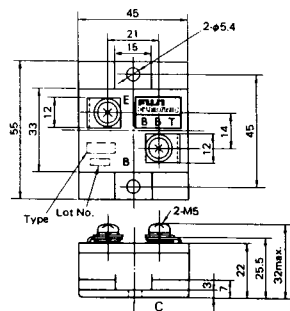


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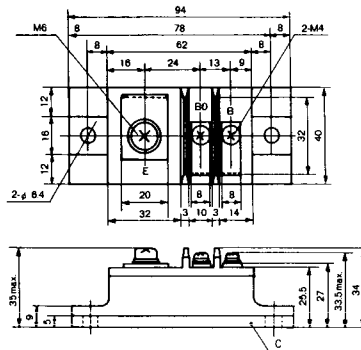
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BBTII
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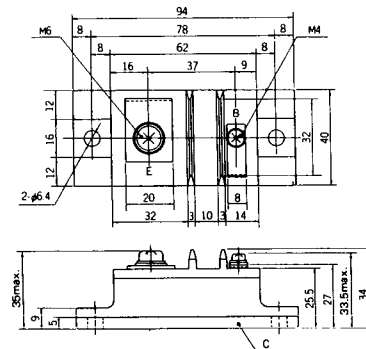
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BBTIII
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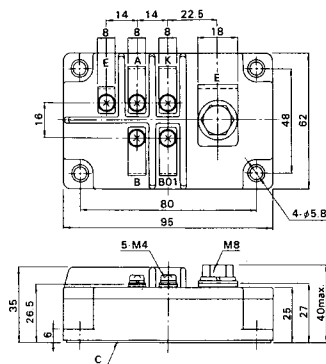
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BBTIII
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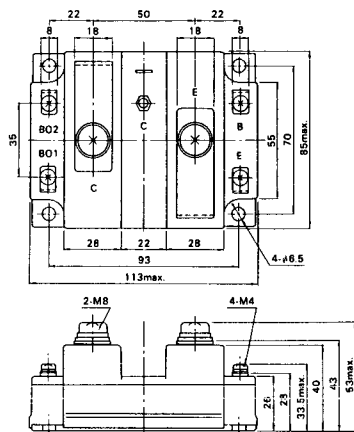


BBT-IV

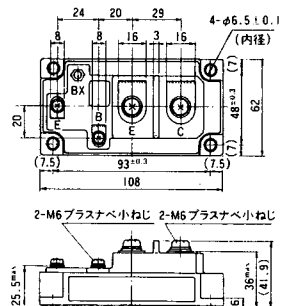
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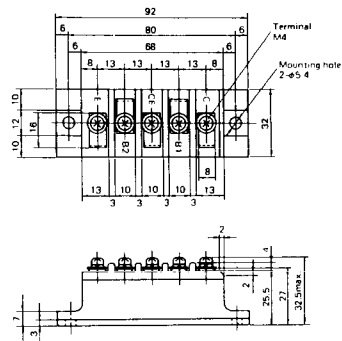
M-107



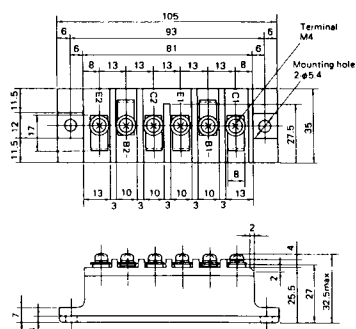
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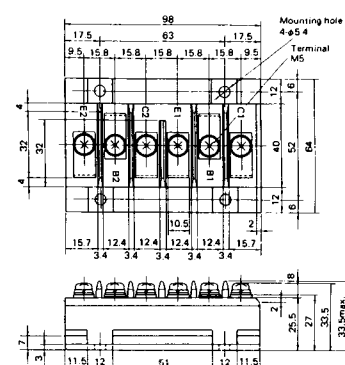
M-201



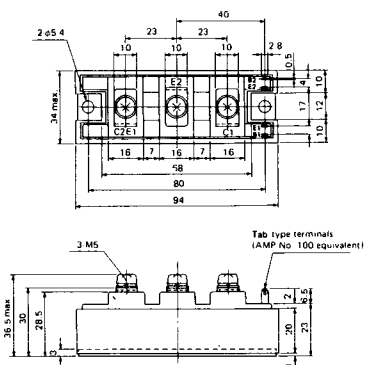
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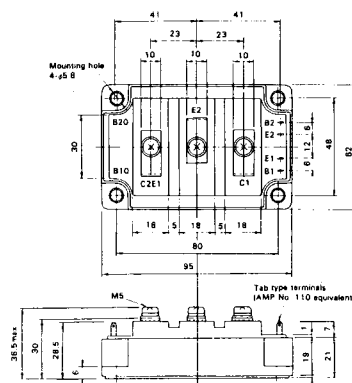
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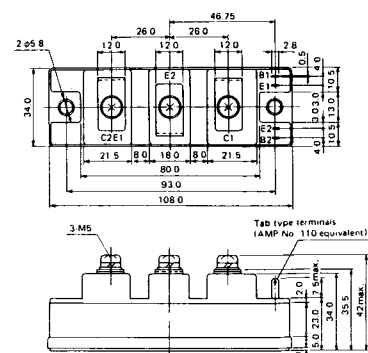
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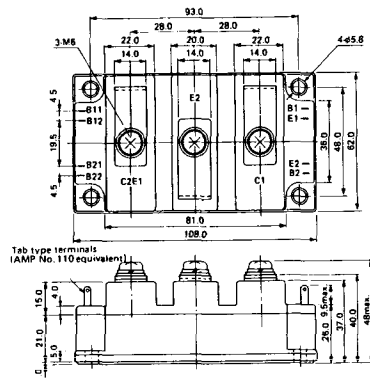
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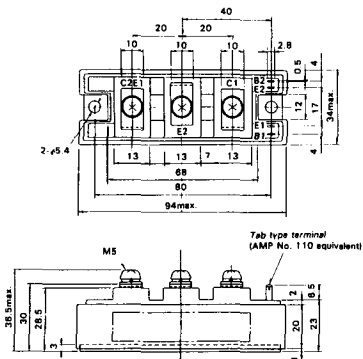
M-206



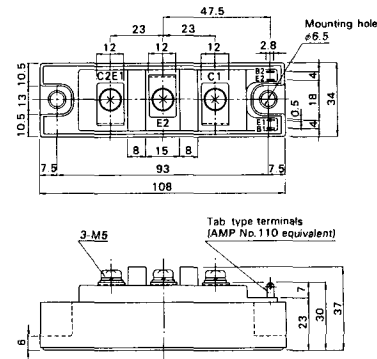
M-207



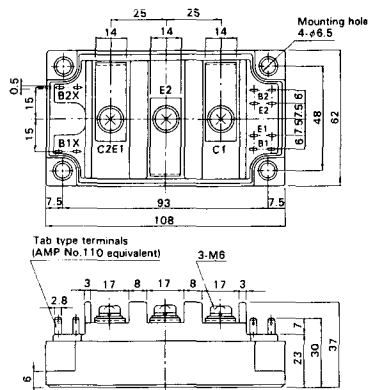
M-208



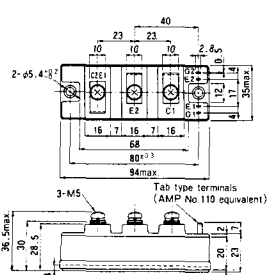
M-209



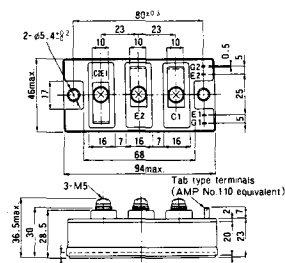
M-210

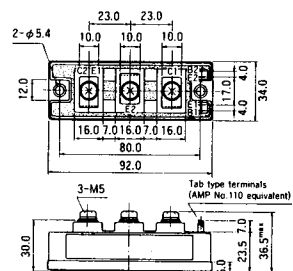
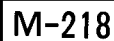
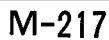
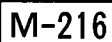
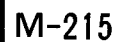
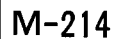


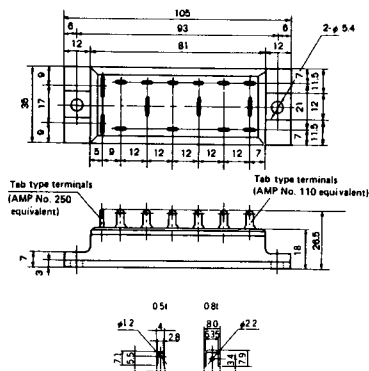
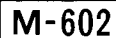
M-211



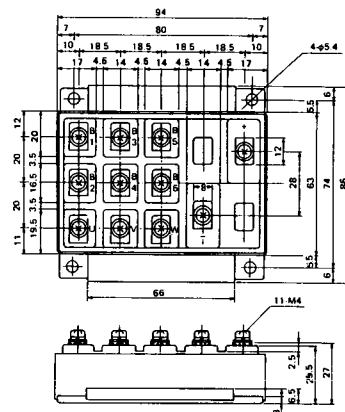
M-212



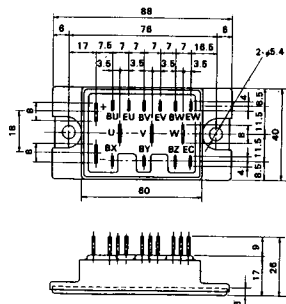




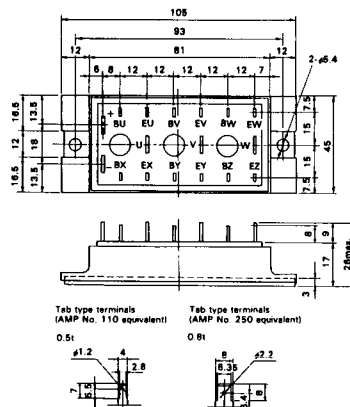
M-603



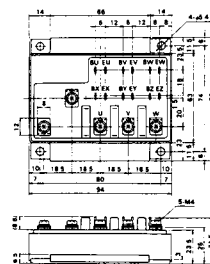
M-604



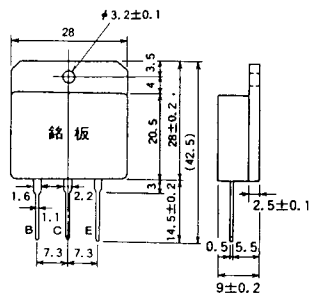
M-605



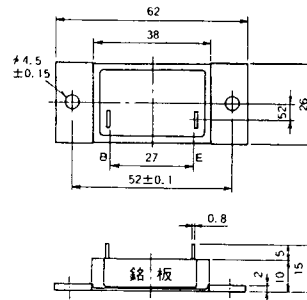
M-606



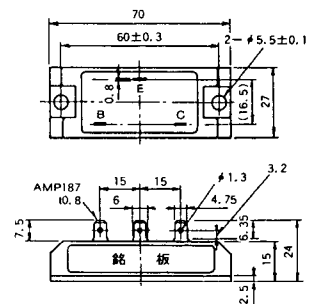
M-1A1A



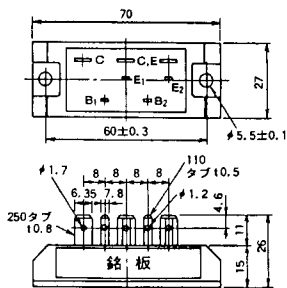
M-2A1A



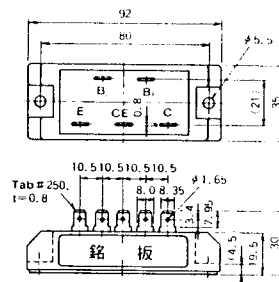
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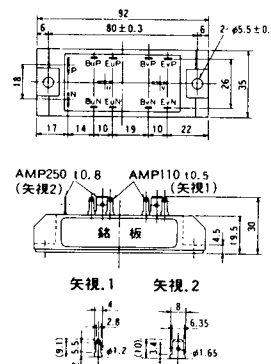
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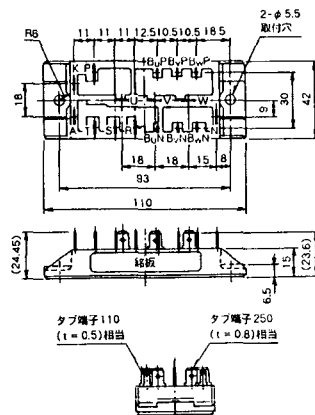
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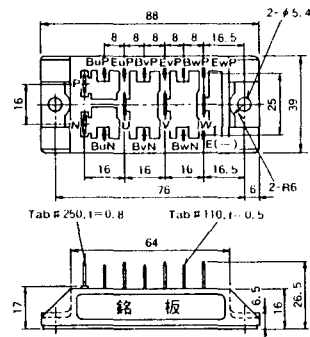
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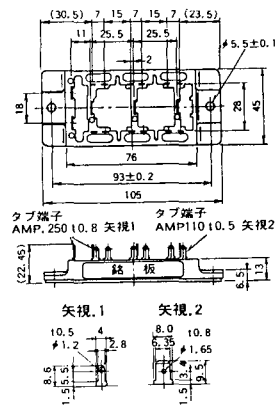
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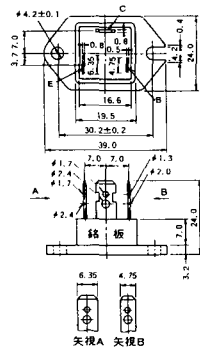
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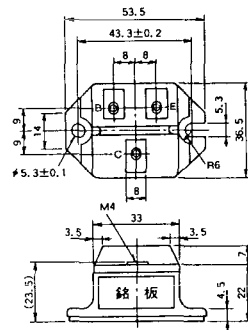
M-2G6A



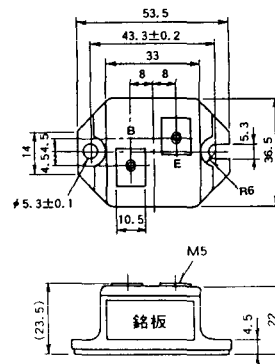
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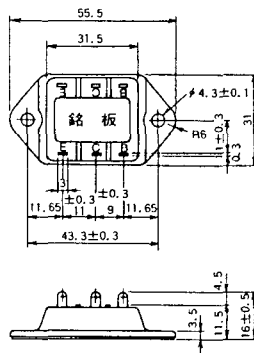
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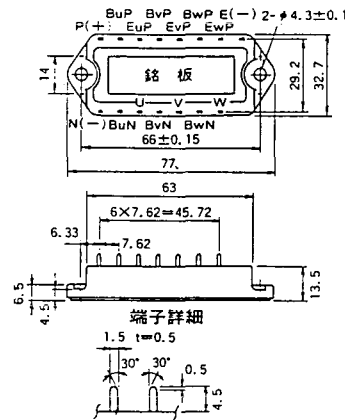
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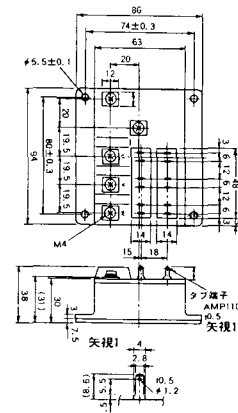
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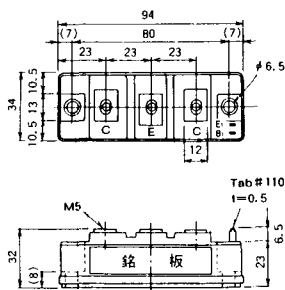
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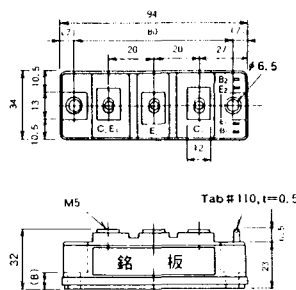
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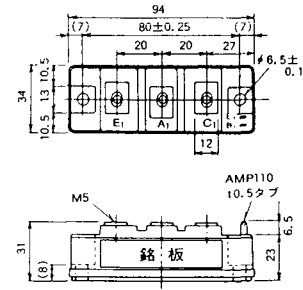
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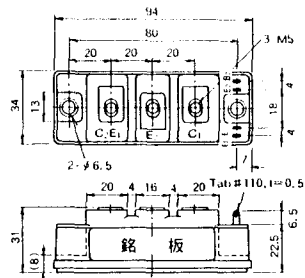
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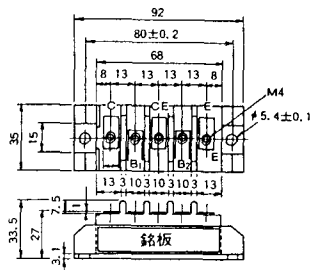
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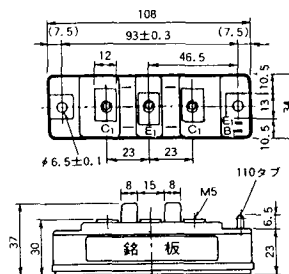
M-4A2B



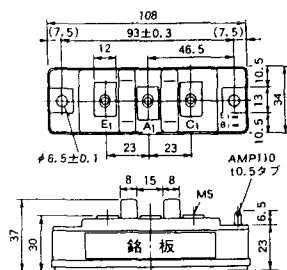
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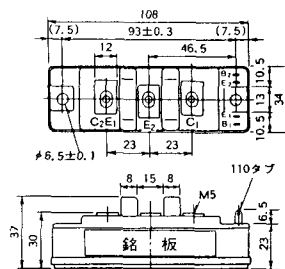
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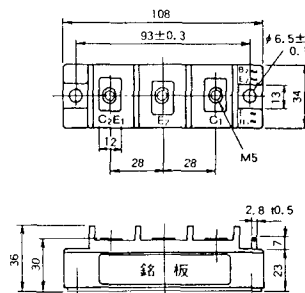
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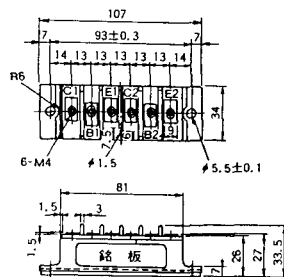
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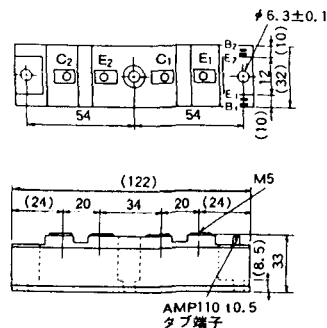
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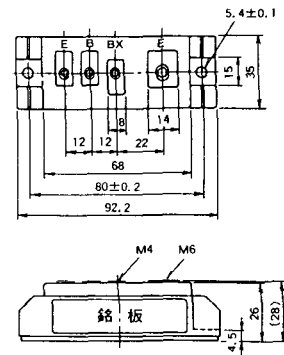
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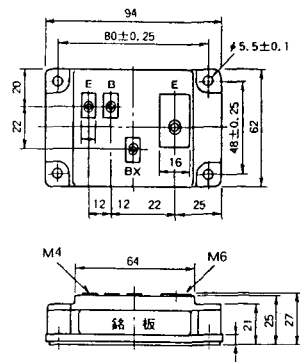
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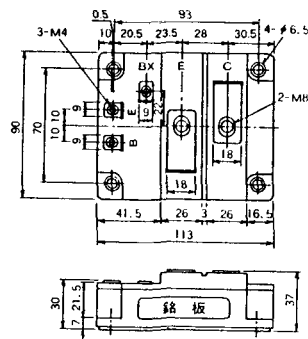
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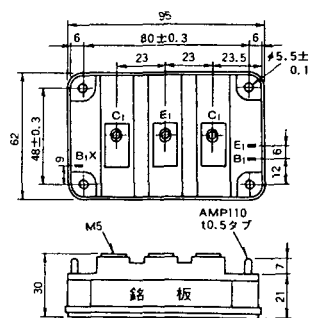
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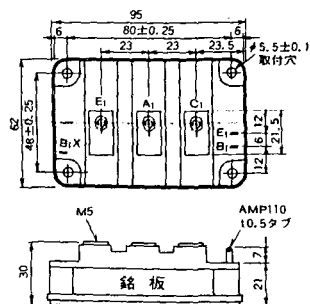
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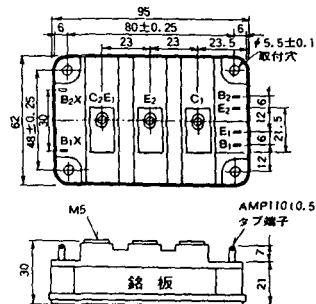
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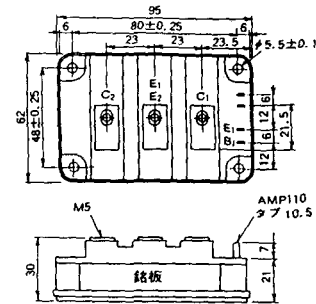
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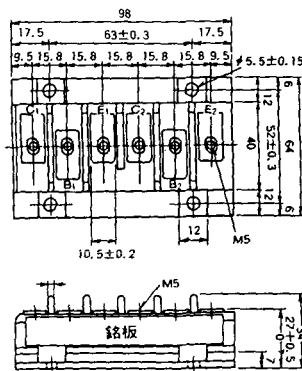
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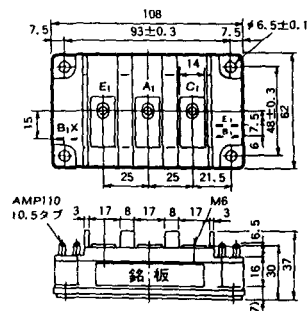
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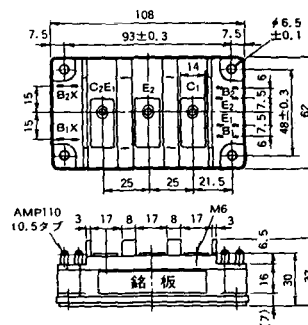
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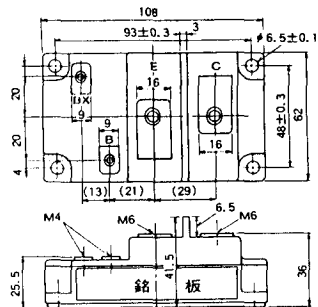
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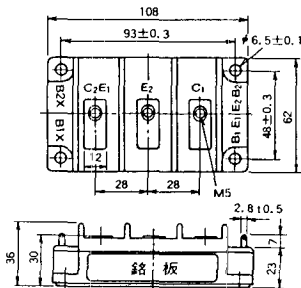
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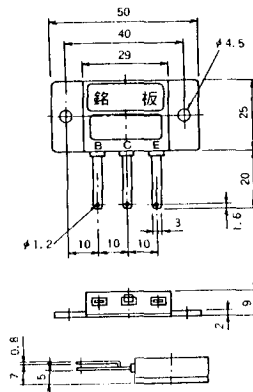
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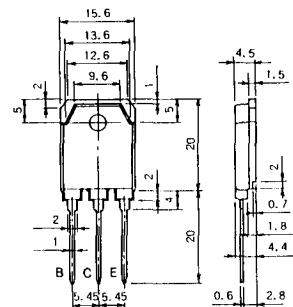
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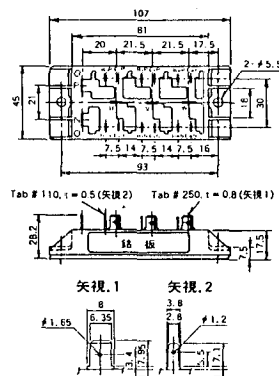
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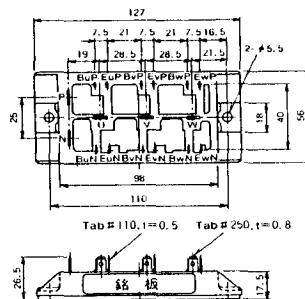
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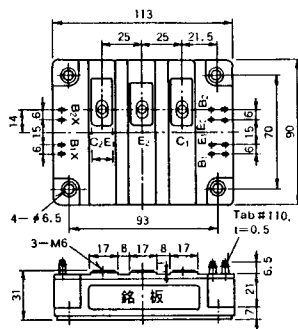
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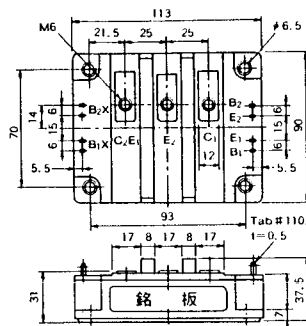
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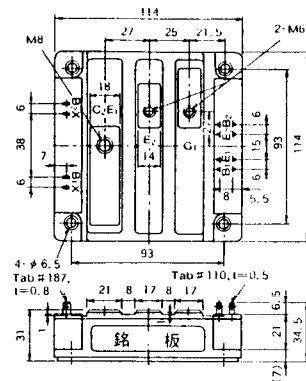
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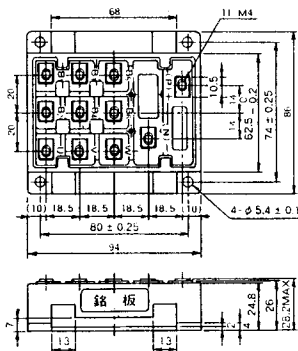
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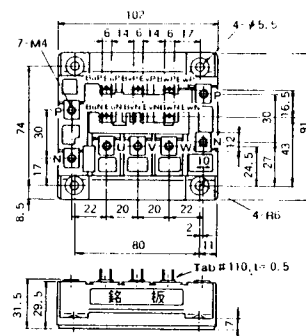
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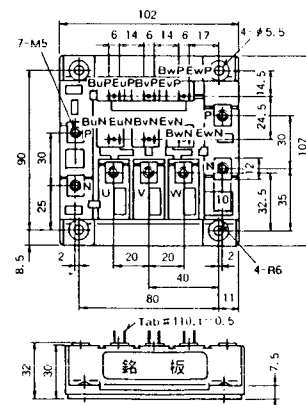
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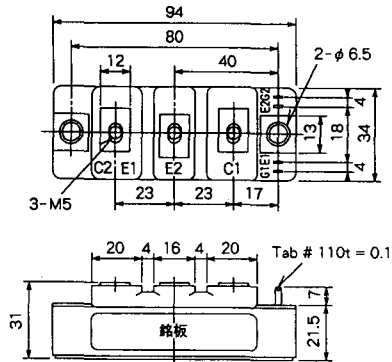
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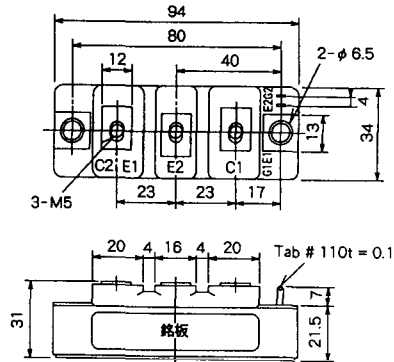
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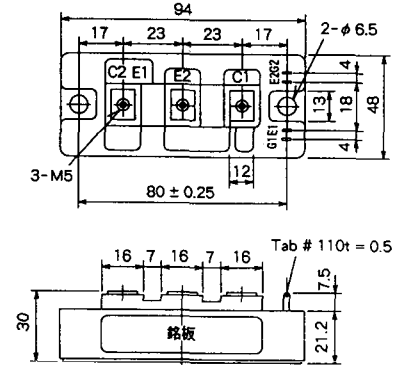
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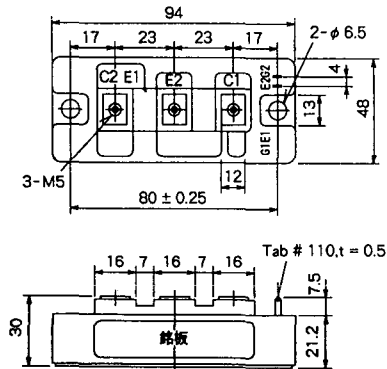
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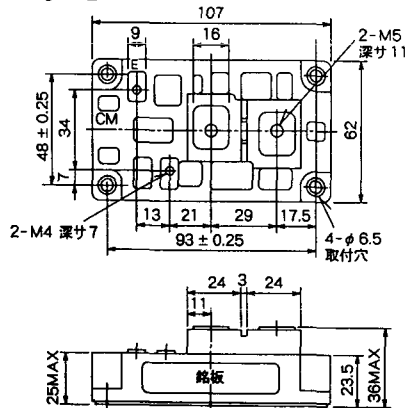
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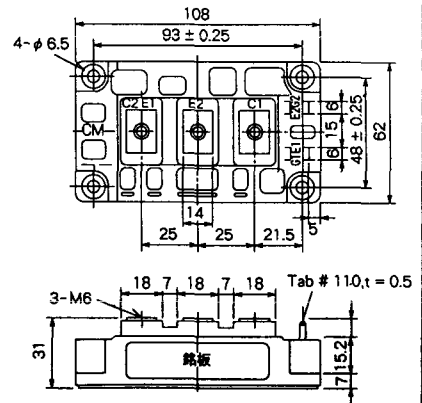
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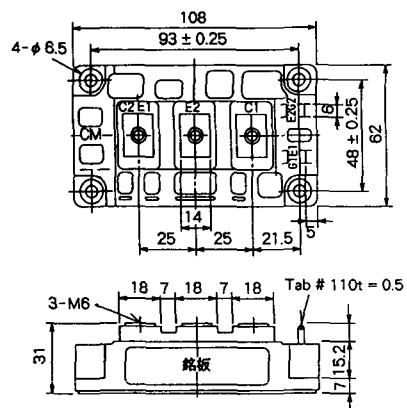
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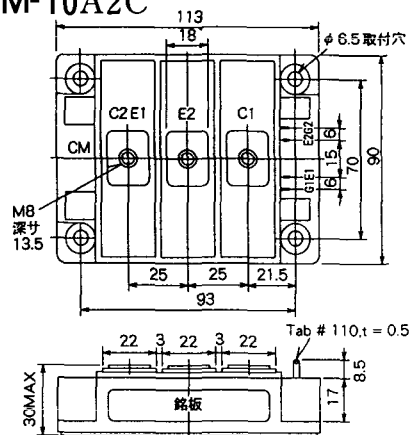
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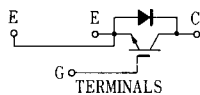
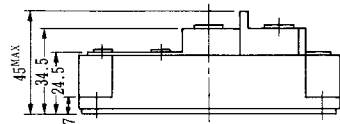
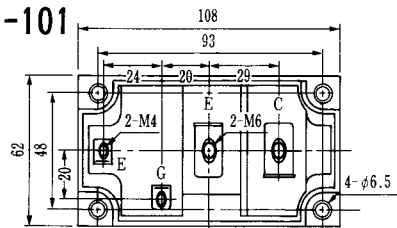
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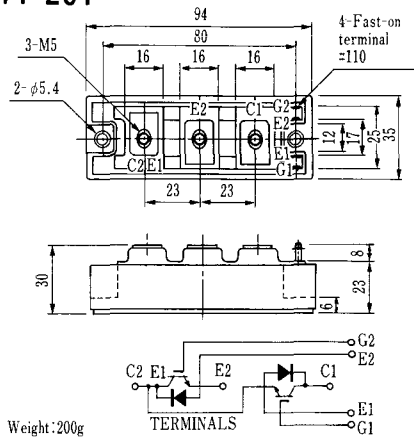
H-101



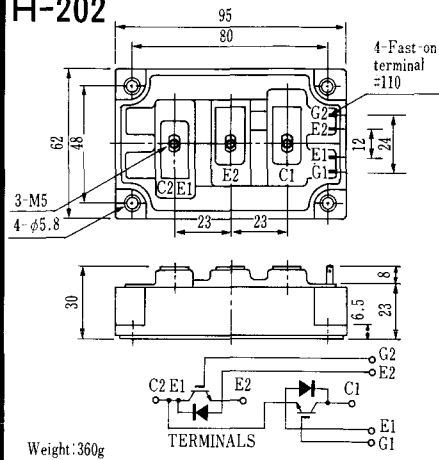
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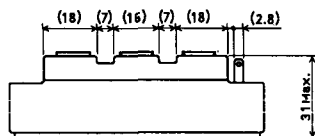
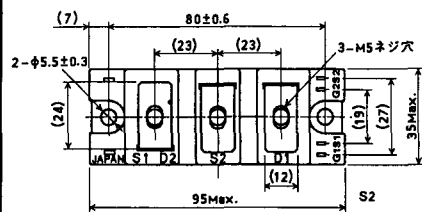
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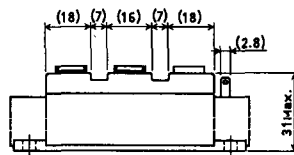
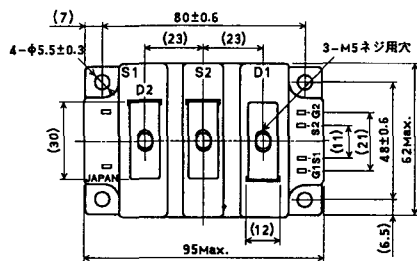
H-202



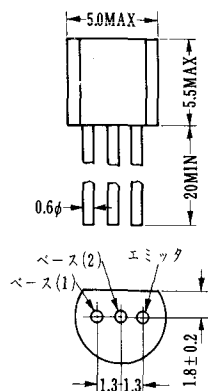
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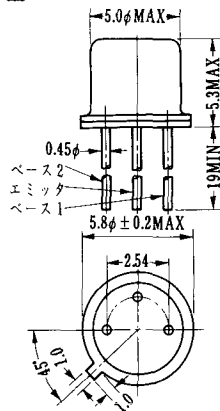
LF-K



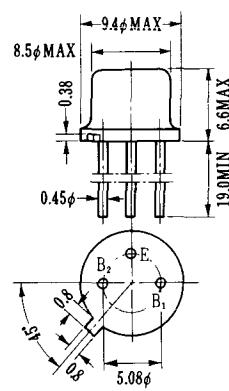
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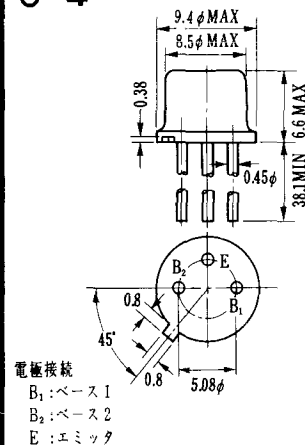
U-2



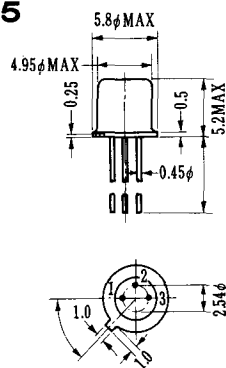
U-3



U-4

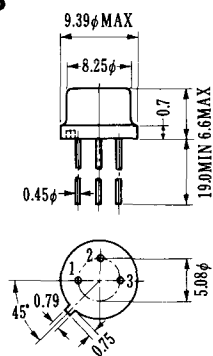


U-5



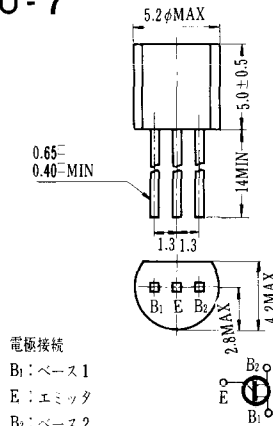
1. BASE 1
2. EMITTER
3. BASE 2 (CASE)

U-6



1. BASE (2)
2. EMITTER
3. BASE (1)

U-7



U-8

