

MOSFET MODULES

Type No.	Max. ratings					Electrical characteristics					Connections
	MOSFET section				Diode section	MOSFET section			Diode section		
	V_{DS} (V)	I_D (A)	P_D (W)	T_{ch} (°C)	$-I_D$ (A)	r_{DS} (ON) (Ω)	t_{on} (ns)	t_{off} (ns)	V_{SO} (V)	(typ) t_r (ns)	
FM15BF-6	300	15	125	150	15	0.28	740	340	2.5	130	A
FM30TF-10S	500	30	310	150	30	0.2	1100	700	2.5	170	B
FM30DY-9, 10	450, 500	30	250	150	30	0.3	170	150	2.5	120	C
FM50DY-9, 10	450, 500	50	310	150	50	0.2	200	175	2.5	120	C
FM50DY-10S	500	50	350	150	50	0.17	300	240	2.5	120	C
FM50DZ-9	450	50	420	150	50	0.12	300	250	2.5	160	D
FM50DZ-10S	500	50	480	150	50	0.12	870	590	2.5	160	D
FM75HA-10	500	75	420	150	75	0.11	520	250	2.5	200	A
FM100HY-9, 10	450, 500	100	800	150	100	0.09	550	300	2.5	160	B

THYRISTOR MODULES

Type No.	Max. ratings					Electrical characteristics				Connections	Remarks
	Repetitive peak reverse voltage Repetitive peak off-voltage V_{RRM} , (V_{DRM}) (V)	Average on (forward) -current $I_{T(AV)}$ (A)	Surge on (forward) -current I_{TSM} (A)	Critical rate-of-rise of on-current di/dt (A/ μ s)	Junction temperature T_J (°C)	Critical rate-of-rise of off-voltage dv/dt (V/ μ s)	Gate trigger current I_{GT} (mA)	Gate trigger voltage V_{GT} (V)			
TM400HA-M, H	400, 800	400 ($T_C = 66^\circ\text{C}$)	8000	100	125	500	100	3.0		Insulated type	
TM400HA-24, 2H	1200, 1600	400 ($T_C = 66^\circ\text{C}$)	8000	200	125	500	100	3.0			
TM20DA-M, H	400, 800	20 ($T_C = 87^\circ\text{C}$)	400	100	125	500	50	3.0			
TM25DZ-M, H	400, 800	25 ($T_C = 93^\circ\text{C}$)	500	100	125	500	50	3.0			
TM25DZ-24, 2H	1200, 1600	25 ($T_C = 87^\circ\text{C}$)	500	100	125	500	50	3.0			
TM55DZ-M, H	400, 800	55 ($T_C = 86^\circ\text{C}$)	1100	100	125	500	100	3.0			
TM55DZ-24, 2H	1200, 1600	55 ($T_C = 81^\circ\text{C}$)	1100	100	125	500	100	2.0			
TM90DZ-M, H	400, 800	90 ($T_C = 86^\circ\text{C}$)	1800	100	125	500	100	3.0			
TM90DZ-24, 2H	1200, 1600	90 ($T_C = 82^\circ\text{C}$)	1800	100	125	500	100	2.0			
TM130DZ-M, H	400, 800	130 ($T_C = 85^\circ\text{C}$)	2600	100	125	500	100	3.0			
TM130DZ-24, 2H	1200, 1600	130 ($T_C = 78^\circ\text{C}$)	2600	100	125	500	100	3.0			
TM200DZ-M, H	400, 800	200 ($T_C = 64^\circ\text{C}$)	4000	100	125	500	100	3.0		Insulated type	
TM200DZ-24, 2H	1200, 1600	200 ($T_C = 64^\circ\text{C}$)	4000	100	125	500	100	3.0			
TM400DZ-M, H	400, 800	400 ($T_C = 66^\circ\text{C}$)	8000	200	125	500	100	3.0			
TM400DZ-24, 2H	1200, 1600	400 ($T_C = 66^\circ\text{C}$)	8000	200	125	500	100	3.0			
TM25CZ-M, H	400, 800	25 ($T_C = 93^\circ\text{C}$)	500	100	125	500	50	3.0			
TM25CZ-24, 2H	1200, 1600	25 ($T_C = 87^\circ\text{C}$)	500	100	125	500	50	3.0			
TM55CZ-M, H	400, 800	55 ($T_C = 86^\circ\text{C}$)	1100	100	125	500	100	3.0			
TM55CZ-24, 2H	1200, 1600	55 ($T_C = 81^\circ\text{C}$)	1100	100	125	500	100	2.0			
TM90CZ-M, H	400, 800	90 ($T_C = 86^\circ\text{C}$)	1800	100	125	500	100	3.0			
TM90CZ-24, 2H	1200, 1600	90 ($T_C = 82^\circ\text{C}$)	1800	100	125	500	100	2.0			
TM130CZ-M, H	400, 800	130 ($T_C = 85^\circ\text{C}$)	2600	100	125	500	100	3.0		Non-insulated type	
TM130CZ-24, 2H	1200, 1600	130 ($T_C = 78^\circ\text{C}$)	2600	100	125	500	100	3.0			
TM200CZ-M, H	400, 800	200 ($T_C = 64^\circ\text{C}$)	4000	100	125	500	100	3.0			
TM200CZ-24, 2H	1200, 1600	200 ($T_C = 64^\circ\text{C}$)	4000	100	125	500	100	3.0			
TM400CZ-M, H	400, 800	400 ($T_C = 66^\circ\text{C}$)	8000	200	125	500	100	3.0			
TM400CZ-24, 2H	1200, 1600	400 ($T_C = 66^\circ\text{C}$)	8000	200	125	500	100	3.0			
TM60SA-6	300	60 ($T_C = 125^\circ\text{C}$)	1200	50	150	200	100	3.0			
TM90SA-6	300	90 ($T_C = 126^\circ\text{C}$)	1800	100	150	200	100	3.0			
TM150SA-6	300	150 ($T_C = 119^\circ\text{C}$)	3000	100	150	200	100	3.0			
TM60SZ-M	400	60 ($T_C = 125^\circ\text{C}$)	1200	50	150	200	100	3.0			
TM100SZ-M	400	100 ($T_C = 122^\circ\text{C}$)	2000	50	150	200	100	3.0			

(Excepting DZ/RZ all thyristor modules are available by special order)