

RSM	*RRM; *DRM	.D cov. (rail contaction)
V	V	$(T_c = 62 °C)$
300	200	SKB 33/02
500	400	SKB 33/04
700	600	SKB 33/06
900	800	SKB 33/08
1100	1000	SKB 33/10
1300	1200	SKB 33/12

I_D = 33 A (full conduction)

Controllable Bridge Rectifiers

SKB 33

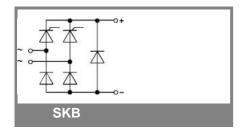
Features

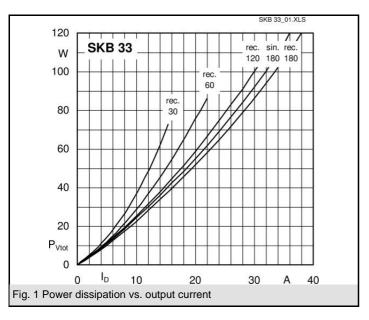
- Half controlled, single phase rectifier with freewheeling diode
- Isolated metal case with screw terminals
- Blocking voltage up to 1200 V
- High surge currents
- Easy chassis mounting

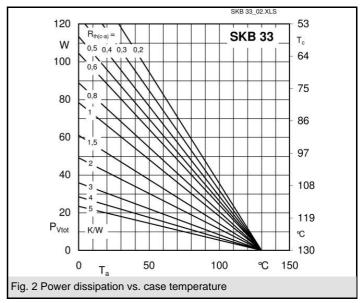
Typical Applications

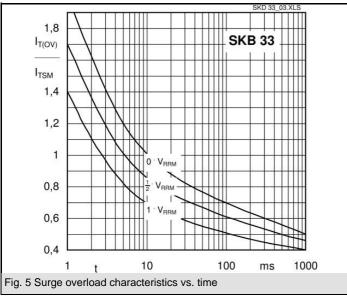
- Power supplies for electronic equipment
- DC motors
- Field rectifiers for DC motors
- · Battery charger rectifiers
- Freely suspended or mounted on an insulator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm

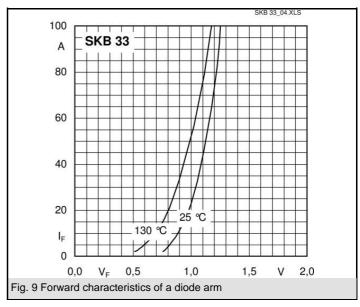
Symbol	Conditions	Values	Units
I _D	T _a = 45 °C	6,5	Α
_	isolated 1)		
	T _a = 45 °C; chassis ²⁾	14	Α
	T _a = 45 °C; P1A/120	24	Α
	T _a = 35 °C; P1A/120 F	32	Α
I _{TSM} , I _{FSM}	T _{vj} = 25 °C; 10 ms	370	A
	T_{vj} = 130 °C; 10 ms	340	Α
i²t	$T_{vj} = 25 ^{\circ}\text{C}; 8,3 \dots 10 \text{ms}$	680	A²s
	T _{vj} = 130 °C; 8,3 10 ms	580	A²s
V _T	T _{vi} = 25 °C; I _T =75 A	max. 2,4	V
$V_{T(TO)}$	T _{vj} = 130 °C;	1	V
r _T	T _{vj} = 130 °C	15	mΩ
$I_{DD}; I_{RD}$	T_{vj} = 130 °C; V_{DD} = V_{DRM} ; V_{RD} = V_{RRM}	max. 10	mA
t _{gd}	$T_{vj} = 25 ^{\circ}\text{C}; I_{G} = 1 \text{A}; di_{G}/dt = 1 \text{A/}\mu\text{s}$	1	μs
t _{gr}	$V_D = 0.67 \cdot V_{DRM}$	1	μs
(dv/dt) _{cr}	T _{vi} = 130 °C	max. 200	V/µs
(di/dt) _{cr}	T _{vi} = 130 °C; f = 50 Hz	max. 50	A/µs
tq	T _{vj} = 130 °C; typ.	80	μs
I _H	T_{vj}^{3} = 25 °C; typ. / max.	20 / 200	mA
IL	$T_{vj} = 25 ^{\circ}\text{C}; R_{G} = 33 \Omega; \text{typ. / max.}$	80 / 400	mA
V _{GT}	$T_{vi} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 3	V
I _{GT}	T_{vi}^{y} = 25 °C; d.c.	min. 100	mA
V_{GD}	T_{vj}^{-3} = 130 °C; d.c.	max. 0,25	V
I_{GD}	T _{vj} = 130 °C; d.c.	max. 3	mA
R _{th(j-c)}	per thyristor / diode	2,6	K/W
	total	0,65	K/W
$R_{th(c-s)}$	total	0,06	K/W
T _{vi}		- 40 + 130	°C
T _{stg}		- 55 + 150	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3000 (2500)	V
M _s	to heatsink	5 ± 15 %	Nm
M _t	to terminals	3 ± 15 %	Nm
m		250	g
Case		G 16	

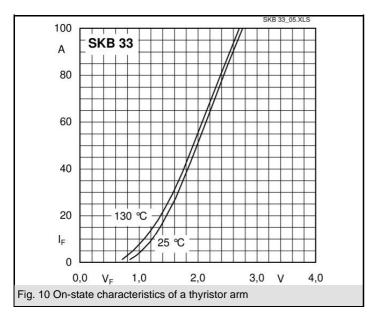


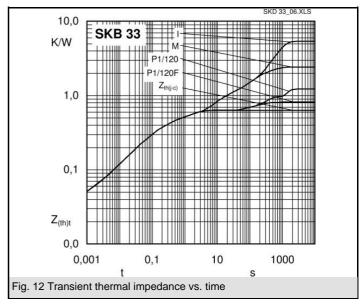


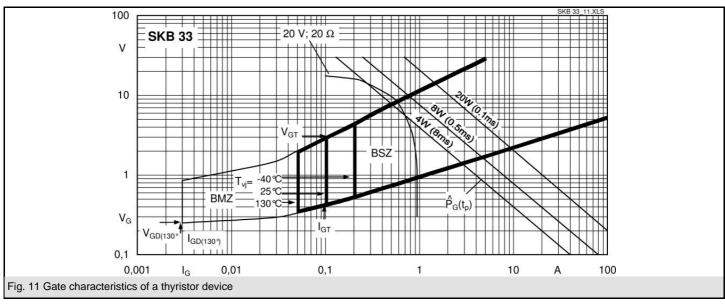


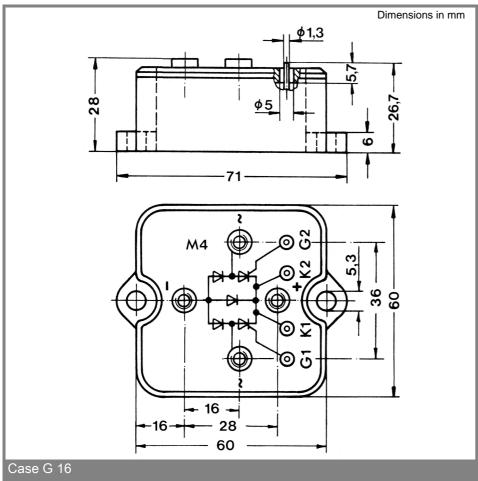












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