SKB 33



Controllable Bridge Rectifiers

SKB 33

Features

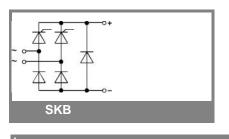
- Half controlled, single phase rectifier with freewheeling diode
- Isolated metal case with screw terminals
- Blocking voltage up to 1200 V
- High surge currents
- Easy chassis mounting

Typical Applications

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

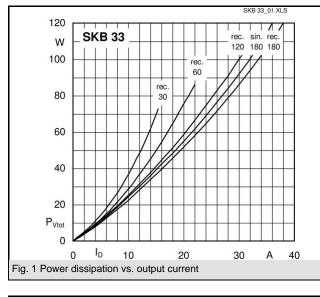
V _{RSM}	V _{RRM} , V _{DRM}	I _D = 33 A (full conduction)
V	V	(T _c = 62 °C)
300	200	SKB 33/02
500	400	SKB 33/04
700	600	SKB 33/06
900	800	SKB 33/08
1100	1000	SKB 33/10
1300	1200	SKB 33/12

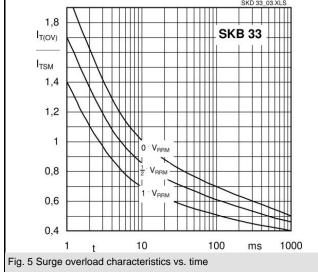
Symbol	Conditions	Values	Units
I _D	T _a = 45 °C	6,5	A
	isolated ¹⁾		
	T _a = 45 °C; chassis ²⁾	14	А
	T _a = 45 °C; P1A/120	24	А
	T _a = 35 °C; P1A/120 F	32	А
I _{TSM} , I _{FSM}	T _{vj} = 25 °C; 10 ms	370	A
	T _{vj} = 130 °C; 10 ms	340	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	680	A²s
	T _{vj} = 130 °C; 8,3 10 ms	580	A²s
V _T	T _{vi} = 25 °C; I _T =75 A	max. 2,4	V
V _{T(TO)}	T _{vi} = 130 °C;	max. 1	V
r _T	T _{vj} = 130 °C	max. 15	mΩ
I _{DD} ; I _{RD}	$T_{vj} = 130 \text{ °C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$	max. 10	mA
t _{gd}	T _{vj} = 25 °C; I _G = 1 A; di _G /dt = 1 A/μs	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
t _q	T _{vj} = 130 °C; typ.	80	μs
I _H	T _{vj} = 25 °C; typ. / max.	20 / 200	mA
I _L	T_{vj} = 25 °C; R_G = 33 Ω ; typ. / max.	80 / 400	mA
V _{GT}	T _{vi} = 25 °C; d.c.	min. 3	V
I _{GT}	$T_{vi} = 25 \text{ °C; d.c.}$	min. 100	mA
V _{GD}	T _{vj} = 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
т		- 40 + 130	°C
Т _{vj} т		- 40 + 150	o ℃
T _{stg}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3000 (2500)	V
V _{isol}		3000 (2500) 5 ± 15 %	V Nm
M _s	to heatsink to terminals	5 ± 15 % 3 ± 15 %	Nm
M _t		250	
m			g
Case		G 16	

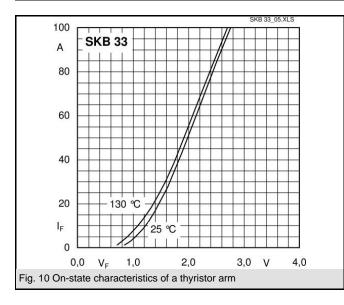


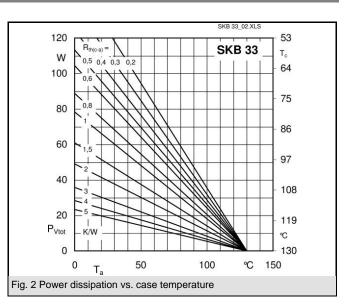
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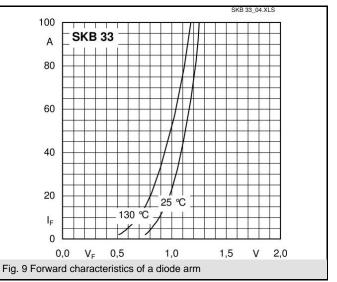
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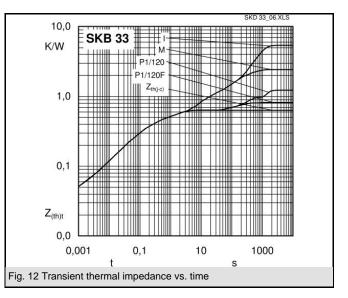




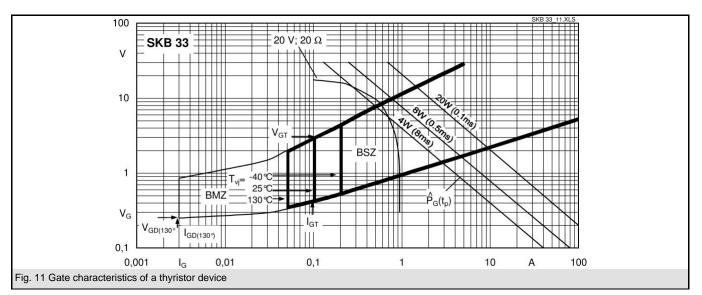


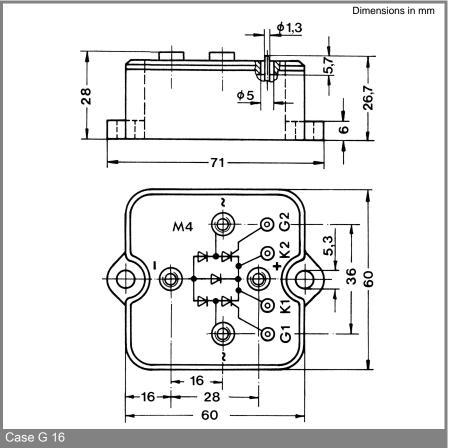






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