SKB 52



SEMIPONT[®] 3

Power Bridge Rectifiers

SKB 52

Features

- Robust plastic case with screw terminals
- Large, isolated base plate
- Blocking voltage up to 1800 V
- High surge currents
- Single phase bridge rectifier
- Easy chassis mounting
- UL recognized, file no. E 63 532

Typical Applications

- Single phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- 1) Freely suspended or mounted on an isolator
- Mounted on a painted metal sheet of min.
 250 x 250 x 1 mm:

R _{th(s-a)} = 1,8 K/W

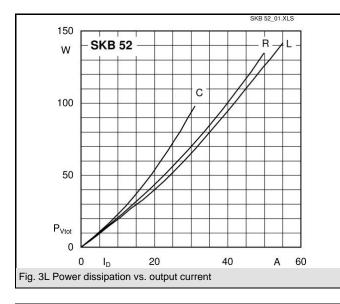
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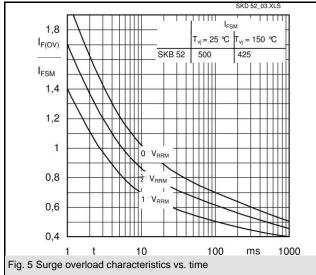
V _{RSM}	V _{RRM} , V _{DRM}	I _D = 50 A (full conduction)
V	V	(T _c = 99 °C)
400	400	SKB 52/04
800	800	SKB 52/08
1200	1200	SKB 52/12
1400	1400	SKB 52/14
1600	1600	SKB 52/16
1800	1800	SKB 52/18

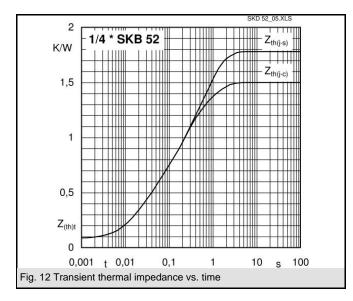
Symbol	Conditions	Values	Units
I _D	T _c = 85 °C	60	А
	resistive / inductive load		
	T _a = 45 °C; isolated ¹⁾	9,5	А
	$T_a = 45 \text{ °C}; \text{ chassis }^{2)}$	21,5	А
	T _a = 45 °C; P1A/120 (P1A/200)	40 (45)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	500	А
	T _{vi} = 150 °C; 10 ms	425	А
i²t 1	T _{vi} = 25 °C; 8,3 10 ms	1250	A²s
	T _{vj} = 150 °C; 8,3 10 ms	900	A²s
V _F	T _{vi} = 25 °C; I _F = 150 A	max. 1,8	V
V _(TO)	T _{vi} = 150 °C	max. 0,85	V
r _T	T _{vi} = 150 °C	max. 8	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$	max. 0,5	mA
$T_{vj}^{ij} = 150 \text{ °C}; V_{RD} = V_{rd}$	T _{vj} = 150 °C; V _{RD} = V _{RRM}	5	mA
R _{th(j-c)} per diode	per diode	1,5	K/W
tn(j-c)	total	0,375	K/W
R _{th(c-s)}	total	0,07	K/W
T _{vj}		-40 + 150	°C
T _{stg}		-40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 (3000)	V
Ms	to heatsink	5 ± 15%	Nm
M,	to terminals	5 ± 15%	Nm
m		165	g
Case		G 35	

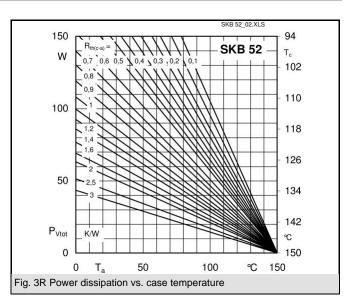
05-04-2007 SCT

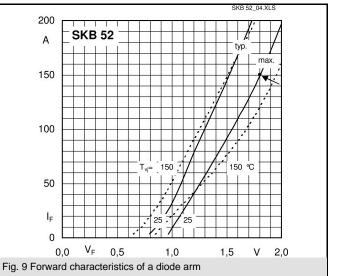
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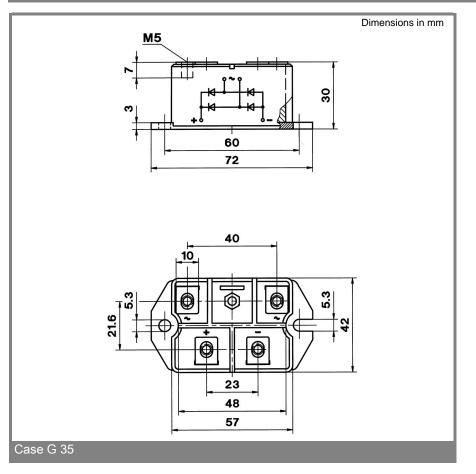








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