SKD 25



Power Bridge Rectifiers

SKD 25

Features

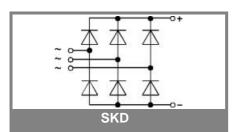
- Square plastic case with isolated metal base plate and fast-on connectors
- Blocking voltage to 1600 V
- High surge current
- Easy chassis mounting
- UL recognized, file no. E 63 532

Typical Applications

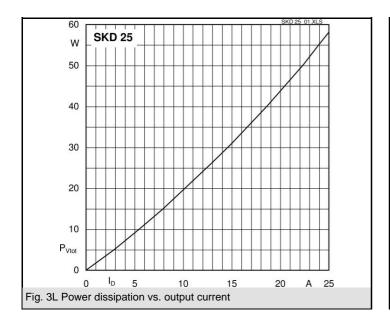
- Three phase rectifier for power supplies
- Input rectifiers for variable frequency drives
- Rectifier for DC motor field supplies
- Battery charger rectifiers
- Recommended snubber network: RC: 50 Ω , 0.1 μ F (P _R = 1 W)
- 1) Freely suspended or mounted on an insulator
- Mounted on a painted metal sheet of min.
 250 x 250 x 1 mm

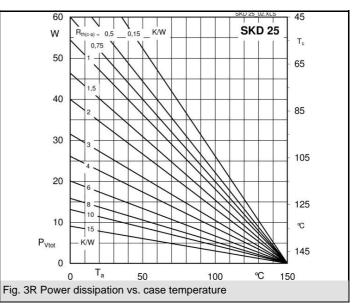
ſ	$V_{\rm RSM}, V_{\rm RRM}$	V _{VRMS}	I _D = 20 A (T _c = 73 °C)	C _{max}	R _{min}
	V	V	Types	μF	Ω
	200		SKD 25/02		0,15
	400		SKD 25/04		0,3
	800		SKD 25/08		0,7
	1200		SKD 25/12		1
	1400		SKD 25/14		1,2
	1600		SKD 25/16		1,5

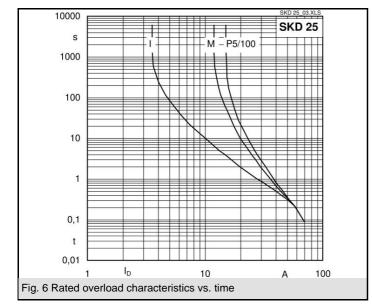
Symbol	Conditions	Values	Units
I _D	T _a = 45 °C, isolated ¹⁾	3,5	А
	$T_a = 45 \text{ °C}, \text{ chassis}^{2)}$	12	А
IDCL	$T_a = 45 \text{ °C}, \text{ isolated}^{1)}$	3,5	А
	T _a = 45 °C, chassis ²⁾	12	А
I _{FSM}	T _{vi} = 25 °C, 10 ms	370	А
	T _{vi} = 150 °C, 10 ms	320	А
i²t	T _{vj} = 25 °C, 8,3 10 ms	680	A²s
	T _{vj} = 150 °C, 8,3 10 ms	500	A²s
V _F	T _{vi} = 25°C, I _F = 150 A	max. 2,2	V
V _(TO)	$T_{vi} = 150^{\circ}C$	0,85	V
r _T	$T_{vj}^{3} = 150^{\circ}C$	12	mΩ
I _{RD}	$T_{vi} = 25^{\circ}C, V_{RD} = V_{RRM}$	300	μA
I _{RD}	$T_{vj} = 150^{\circ}C, V_{RD} = V_{RRM}$	5	mA
t _{rr}	$T_{vj} = 25^{\circ}C$	10	μs
f _G		2000	Hz
R _{th(j-a)}	isolated ¹⁾	15	K/W
- 0 - /	chassis ²⁾	4,7	K/W
R _{th(j-c)}	total	1,75	K/W
R _{th(c-s)}	total	0,15	K/W
T _{vj}		- 40 + 150	°C
T _{stg}		- 55 + 150	°C
V _{isol}	a. c. 50 60 Hz; r.m.s.; 1 s / 1 min.	3000 / 2500	٧~
M _s	to heatsink	2 ± 15 %	Nm
M _t			Nm
m		26	g
Fu		20	А
Case		G 11a	

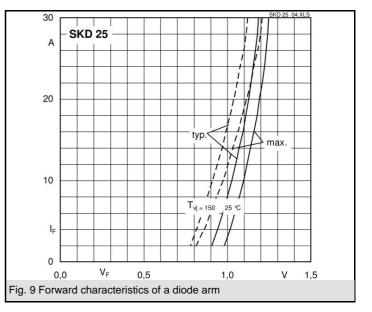


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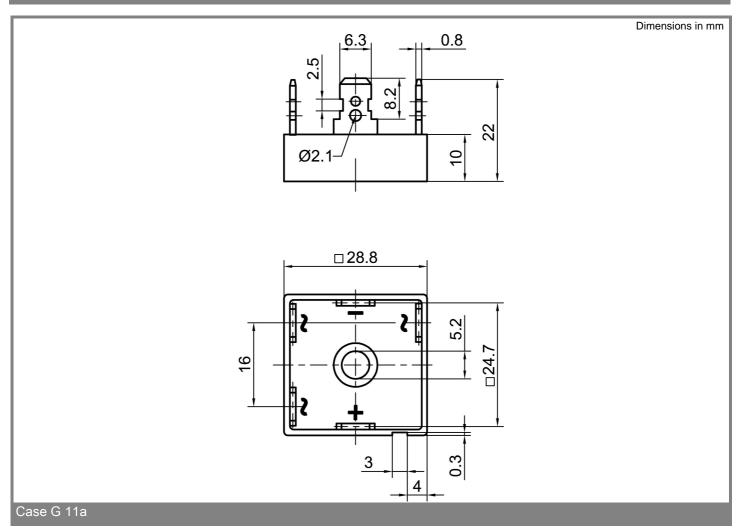








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