

Power Bridge Rectifiers

SKD 41

Preliminary Data

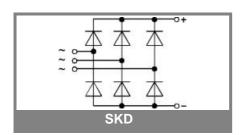
Features

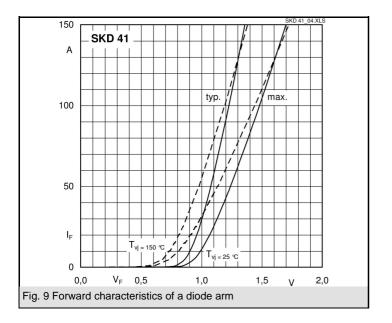
- Square plastic case with isolated metal base plate and fast-on connectors
- Blocking voltage to 1000 V
- High surge current
- · Easy chassis mounting

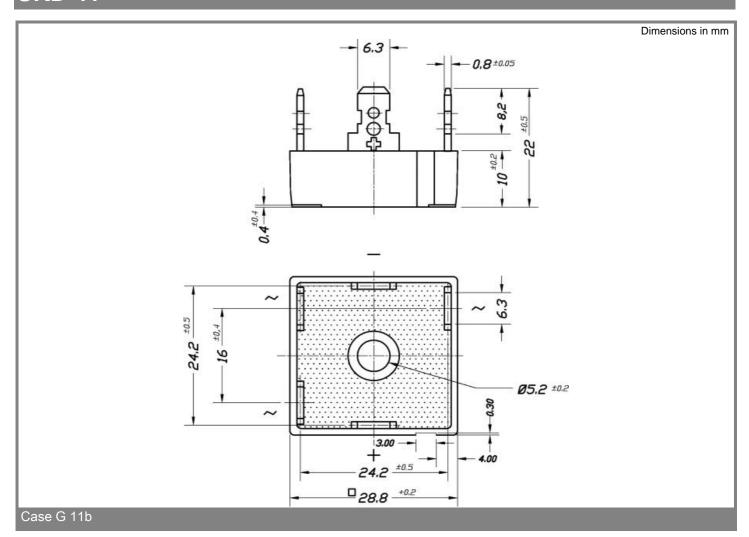
Typical Applications

- 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)
- 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 = 35 °C, P1/120 forced cooling	42	Α
	T _a = 45 °C, P1/120 natural cooling	30	Α
I _{DCL}	T _a = 35 °C, P1/120 forced cooling	36	Α
	T _a = 45 °C, P1/120 natural cooling	26,5	Α
	$T_a = {^{\circ}C},$		А
I _{FSM}	T _{vi} = 25 °C, 10 ms	500	Α
	T _{vi} = 150 °C, 10 ms	430	Α
i²t	T _{vi} = 25 °C, 8,3 10 ms	1250	A²s
	T _{vj} = 150 °C, 8,3 10 ms	920	A²s
V _F	T _{vi} = 25°C, I _F = 150 A	max. 1,7	V
$V_{(TO)}$	T _{vi} = 150°C	max. 0,8	V
r _T	T _{vi} = 150°C	max. 5,7	mΩ
I _{RD}	$T_{vj}^{s} = 25^{\circ}C, V_{RD} = V_{RRM}$	300	μA
	$T_{vj}^{3} = {^{\circ}C}, V_{RD} = V_{RRM} \ge V$		μA
I _{RD}	$T_{vj}^{3} = 150^{\circ}C, V_{RD} = V_{RRM}$	5	mA
	$T_{vj}^{3} = {^{\circ}C}, V_{RD} = V_{RRM} \ge V$		mA
t _{rr}	T _{vj} = 25°C	10	μs
f_G		2000	Hz
R _{th(j-a)}	isolated ¹⁾	14	K/W
() (2)	chassis ²⁾	3,8	K/W
R _{th(j-c)}	total	1,0	K/W
R _{th(c-s)}	total	0,15	K/W
T _{vi}		- 40 + 150	°C
T _{stg}		- 55 + 130	°C
V _{isol}	a. c. 50 60 Hz; r.m.s.; 1 s / 1 min.	3000 / 2500	V~
M _s	to heatsink	2 ± 15 %	Nm
M_t			Nm
a			m/s²
w		26	g
Fu			Α
Case		G 11b	







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