SKD 50



Power Bridge Rectifiers

SKD 50

Features

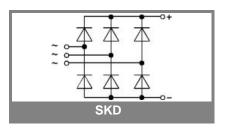
- Isolated metal case with screw terminals
- Blocking voltage up to 1600 V
- High surge current
- Easy chassis mounting

Typical Applications

- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- Recommended snubber network: RC: 0.1 μ F, 50 Ω (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

V _{RSM} , V _{RRM}	V _{VRMS}	I _D = 50 A (T _c = 92 °C)	C _{max}	R _{min}
V	V	Types	μF	Ω
200		SKD 50/02A3		0,1
400		SKD 50/04A3		0,2
800		SKD 50/08A3		0,4
1200		SKD 50/12A3		0,6
1400		SKD 50/14A3		0,7
1600		SKD 50/16A3		0,8

Symbol	Conditions	Values	Units
I _D	$T_a = 45 \text{ °C}, \text{ isolated}^{1)}$	10	А
-	$T_a = 45 \text{ °C}, \text{ chassis}^{2)}$	22	А
I _{DCL}	$T_a = 45 \text{ °C}, \text{ isolated}^{1)}$	10	А
	$T_a = 45 \text{ °C}, \text{ chassis}^{2)}$	22	A
	T _a = 35 °C, P1A/120 F	60	А
I _{FSM}	T _{vi} = 25 °C, 10 ms	750	А
	T _{vi} = 150 °C, 10 ms	600	A
i²t	T _{vi} = 25 °C, 8,3 10 ms	2800	A²s
	T _{vj} = 150 °C, 8,3 10 ms	1800	A²s
V _F	T _{vi} = 25°C, I _F = 150 A	max. 1,6	V
V _(TO)	$T_{vi} = 150^{\circ}C$	max. 0,85	V
r _T	T _{vi} = 150°C	max. 8	mΩ
I _{RD}	$T_{vj}^{0} = 25^{\circ}C, V_{RD} = V_{RRM}$	1000	μA
	$T_{vi} = °C, V_{RD} = V_{RRM} \ge V$		μA
I _{RD}	$T_{vi} = 150^{\circ}C, V_{RD} = V_{RRM}$	10	mA
	$T_{vi} = C, V_{RD} = V_{RRM} \ge V$		mA
t _{rr}	$T_{vj} = 25^{\circ}C$	10	μs
f _G		2000	Hz
R _{th(j-a)}	isolated ¹⁾	5,5	K/W
	chassis ²⁾	2,3	K/W
R _{th(j-c)}	total	0,45	K/W
R _{th(c-s)}	total	0,06	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	V~
Ms	to heatsink	5 ± 15 %	Nm
Mt	to terminals	3 ± 15 %	Nm
a		5 * 9,81	m/s²
w		250	g
Fu		50	А
Case		G 15	



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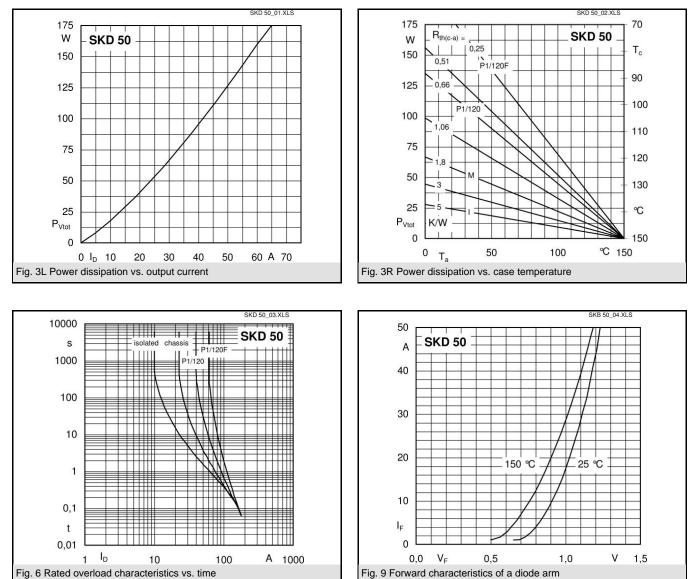
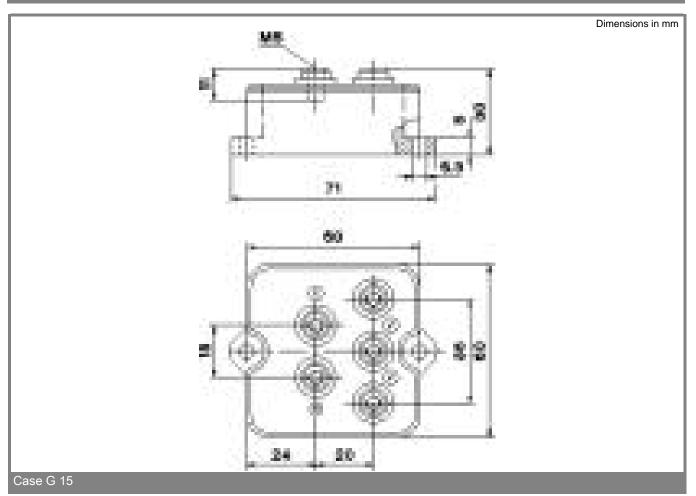


Fig. 8 Rated overload characteristics vs. time

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