

V_{RSM}, V_{RRM}	V_{VRMS}	$I_D = 50 \text{ A (T}_c = 92 \text{ °C)}$	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

Power Bridge Rectifiers

SKD 50

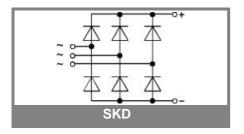
Features

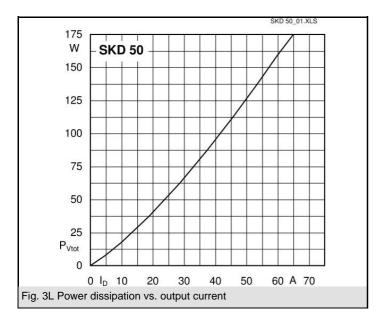
- Isolated metal case with screw terminals
- Blocking voltage up to 1600 V
- High surge current
- · Easy chassis mounting

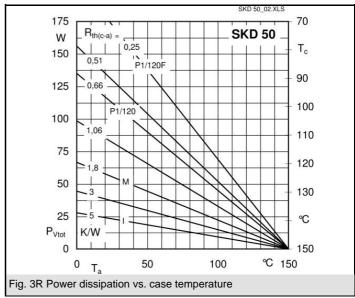
Typical Applications

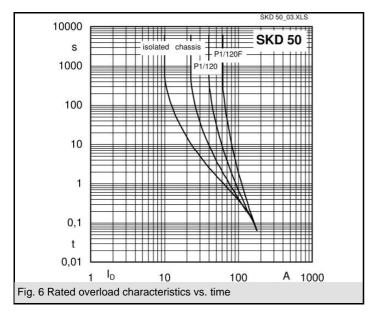
- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers
- Recommended snubber network: RC: 0.1 μ F, 50 Ω (P $_{R}$ = 1 W)
- Freely suspended or mounted on an insulator
- 2) Mounted on a painted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

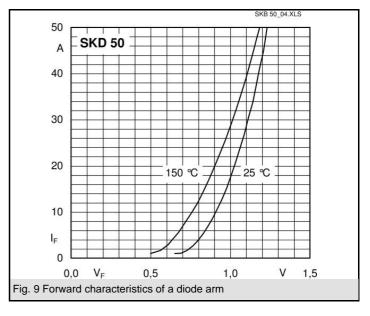
Symbol	Conditions	Values	Units		
I _D	T _a = 45 °C, isolated ¹⁾	10	Α		
	T _a = 45 °C, chassis ²⁾	22	Α		
I _{DCL}	T _a = 45 °C, isolated ¹⁾	10	Α		
	T _a = 45 °C, chassis ²⁾	22	Α		
	T _a = 35 °C, P1A/120 F	60	Α		
I _{FSM}	T _{vj} = 25 °C, 10 ms	750	Α		
	T _{vi} = 150 °C, 10 ms	600	Α		
i²t	T _{vj} = 25 °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°C	0,85	V		
r _T	$T_{vi}^{3} = 150^{\circ}C$	8	mΩ		
I _{RD}	$T_{vj}^{s} = 25^{\circ}C, V_{RD} = V_{RRM}$	1000	μA		
I_{RD}	$T_{vj} = 150$ °C, $V_{RD} = V_{RRM}$	10	mA		
t _{rr}	$T_{vi} = 25^{\circ}C$	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~		
M _s	to heatsink	5 ± 15 %	Nm		
M _t	to terminals	3 ± 15 %	Nm		
a		5 * 9,81	m/s²		
m		250	g		
Fu		50	А		
Case		G 15			

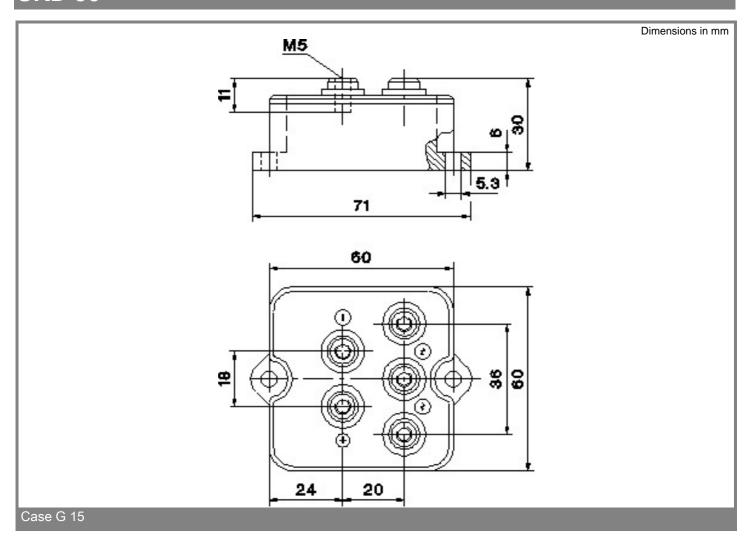












This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.