SKD 82



SEMIPONT[®] 3

Power Bridge Rectifiers

SKD 82

Features

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

Typical Applications

- Three 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
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm;

 $R_{th(s-a)}$ = 1,8 K/W

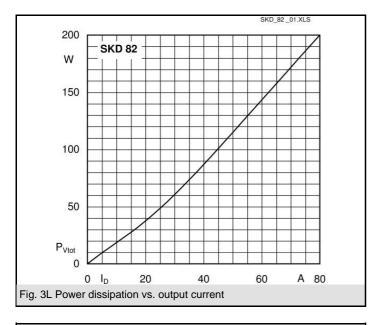
3) Available in limited quantities

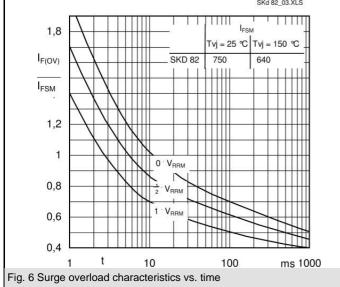
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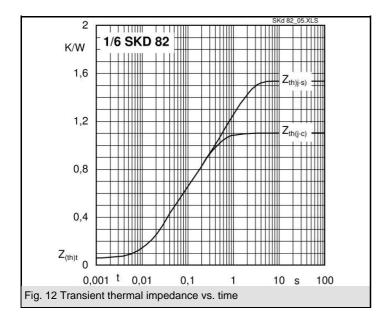
V _{RSM}	V _{RRM} , V _{DRM}	I _D = 80 A (full conduction)
V	V	(T _c = 110 °C)
400	400	SKD 82/04
800	800	SKD 82/08
1200	1200	SKD 82/12
1400	1400	SKD 82/14
1600	1600	SKD 82/16
1800	1800	SKD 82/18 ³⁾

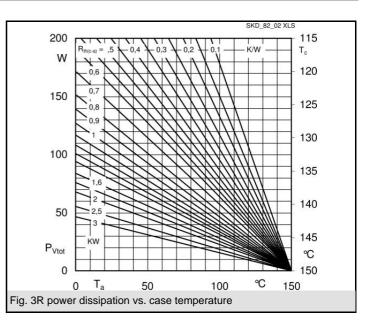
Symbol	Conditions	Values	Units
I _D	T _c = 110 °C	80	А
5	resistive / inductive load		
	$T_a = 45 \text{ °C}; \text{ isolated } ^1)$	12	А
	$T_a = 45 \text{ °C}; \text{ chassis }^{2)}$	26	А
	T _a = 45 °C; P1A/120 (P1A/200)	54 (63)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	750	А
	T _{vi} = 150 °C; 10 ms	640	А
i²t	T _{vi} = 25 °C; 8,3 10 ms	2800	A²s
	T _{vj} = 150 °C; 8,3 10 ms	2000	A²s
V _F	T _{vi} = 25 °C; I _F = 150 A	max. 1,6	V
V _(TO)	$T_{vi} = 150 \text{ °C}$	max. 0,85	V
r _T	$T_{vi} = 150 \ ^{\circ}C$	max. 5	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{DD} = V_{DRM}, V_{RD} = V_{RRM}$	max. 0,5	mA
	$T_{vj} = 150 \text{ °C}; V_{RD} = V_{RRM}$	6	mA
Rug	per diode	1,1	K/W
R _{th(j-c)} per diode total		0,183	K/W
		0,100	K/W
R _{th(c-s)}		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
M	to heatsink	5 ± 15%	Nm
M,	to terminals	5 ± 15%	Nm
m		165	g
Case		G 36	

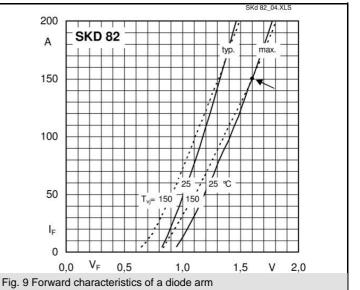
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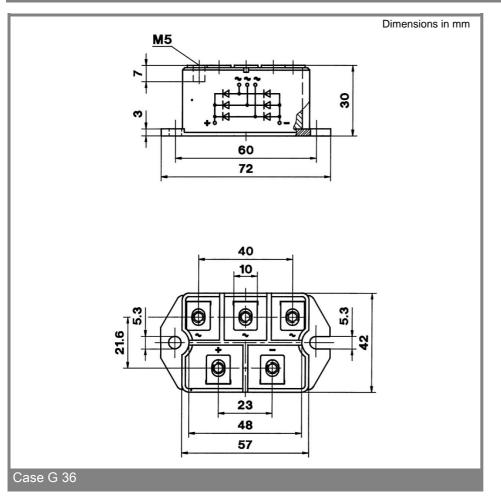








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