

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

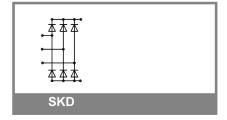
- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- · Battery charger rectifiers
- Freely suspended or mounted on an isolator
- 2) Mounted on a painted metal sheet of min. 250 x 250 x 1 mm;

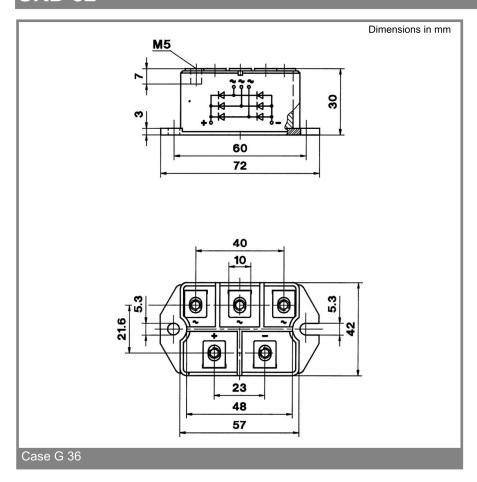
$$R_{th(s-a)} = 1.8 \text{ K/W}$$

3) Available in limited quantities

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





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