

SEMIPONT® 4

Power Bridge Rectifiers

SKD 160

Features

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

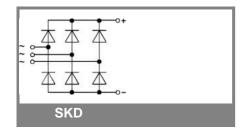
Typical Applications

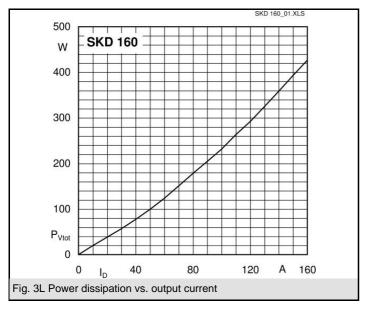
- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- · Battery charger rectifiers
- 1) Available in limited quantities
- Mounted on a painted metal sheet of min. 250 x 250 x 1 mm;

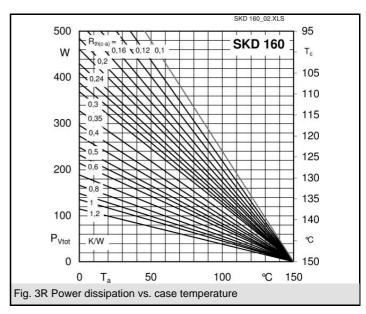
$$R_{th(c-a)} = 1.8 \text{ K/W}$$

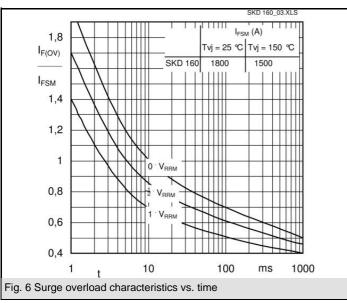
V_{RSM}	V_{RRM}, V_{DRM}	I _D = 160 A (full conduction)
V	V	(T _c = 100 °C)
400	400	SKD 160/04
800	800	SKD 160/08
1200	1200	SKD 160/12
1400	1400	SKD 160/14
1600	1600	SKD 160/16
1800	1800	SKD 160/18 ¹⁾

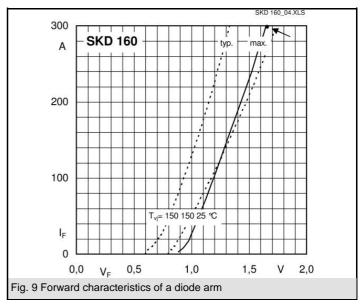
Symbol	Conditions	Values	Units
I _D	T _c = 85 °C	205	Α
	T _a = 45 °C; chassis ²⁾	30	Α
	T _a = 45 °C; P1/200	75	Α
	T _a = 35 °C; P1/120F	145	Α
	T _a = 35 °C; P3/120F	146	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	1800	Α
	T_{vi}^{5} = 150 °C; 10 ms	1500	Α
i²t	T _{vi} = 25 °C; 8,3 10 ms	16200	A²s
	T _{vj} = 150 °C; 8,3 10 ms	11200	A²s
V_{F}	$T_{vi} = 25 ^{\circ}\text{C}; I_F = 300 \text{A}$	max. 1,65	V
V _(TO)	T _{vi} = 150 °C	0,85	V
r _T	T _{vi} = 150 °C	3	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C; } V_{DD} = V_{DRM}, V_{RD} = V_{RRM}$	max. 0,5	mA
	T_{vj}^{J} = 150 °C, $V_{RD} = V_{RRM}$	6	mA
R _{th(j-c)}	per diode	0.65	K/W
tri(j-c)	total	0,11	K/W
$R_{\text{th(c-s)}}$	total	0,03	K/W
T _{vi}		- 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		270	g
Case		G 37	

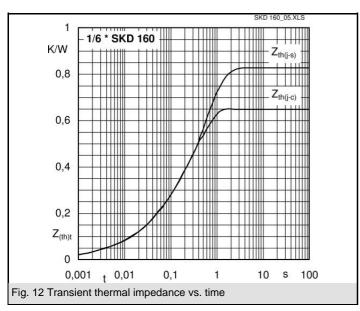


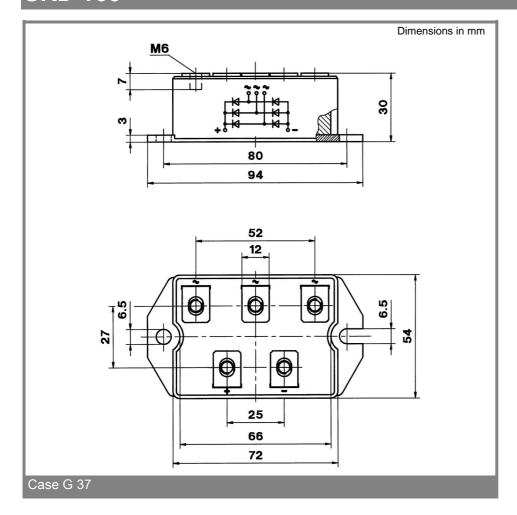












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