# SKD 160



SEMIPONT<sup>®</sup> 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

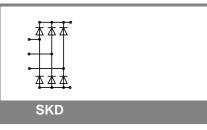
#### **Typical Applications**

- 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;

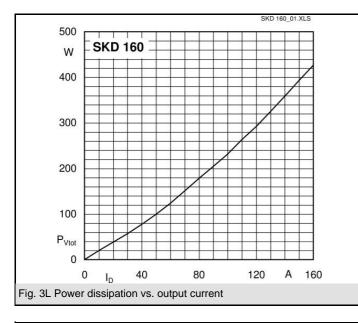
R <sub>th(c-a)</sub> = 1,8 K/W

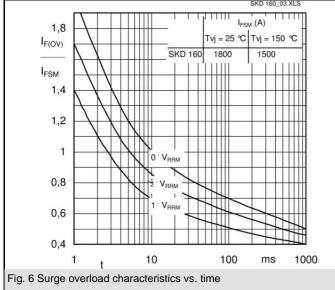
V <sub>RSM</sub>	V <sub>RRM</sub> , V <sub>DRM</sub>	I <sub>D</sub> = 160 A (full conduction)
V	V	(T <sub>c</sub> = 100 °C)
400	400	SKD 160/04
800	800	SKD 160/08
1200	1200	SKD 160/12
1400	1400	SKD 160/14
1600	1600	SKD 160/16
1800	1800	SKD 160/18 <sup>1)</sup>

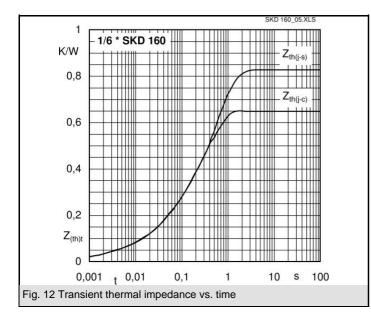
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>c</sub> = 85 °C	205	А
	$T_a = 45 \text{ °C}; \text{ chassis }^{2)}$	30	А
	T <sub>a</sub> = 45 °C; P1/200	75	А
	T <sub>a</sub> = 35 °C; P1/120F	145	А
	T <sub>a</sub> = 35 °C; P3/120F	146	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	1800	А
	T <sub>vi</sub> = 150 °C; 10 ms	1500	А
i²t	T <sub>vi</sub> = 25 °C; 8,3 10 ms	16200	A²s
	T <sub>vj</sub> = 150 °C; 8,3 10 ms	11200	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 300 A	max. 1,65	V
V <sub>(TO)</sub>	T <sub>vi</sub> = 150 °C	max. 0,85	V
r <sub>T</sub>	T <sub>vi</sub> = 150 °C	max. 3	mΩ
I <sub>RD</sub>	$T_{vj} = 25 \text{ °C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$	max. 0,5	mA
	$T_{vj} = 150 \text{ °C}, V_{RD} = V_{RRM}$	6	mA
R <sub>th(j-c)</sub>	per diode	0.65	K/W
th(j-c)	total	0,11	K/W
R <sub>th(c-s)</sub>	total	0,03	K/W
T <sub>vi</sub>		- 40 + 150	°C
T <sub>stg</sub>		- 40 + 125	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 ( 3000 )	V
M <sub>s</sub>	to heatsink	5 ± 15 %	Nm
M,	to terminals	5 ± 15 %	Nm
m		270	g
Case		G 37	

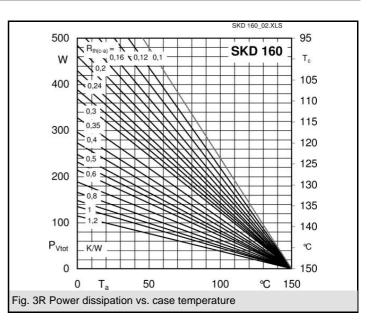


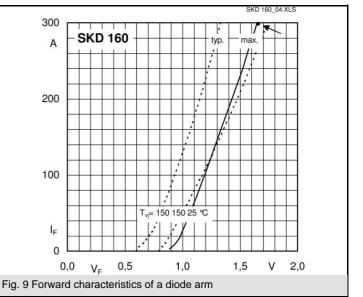
## **SKD 160**



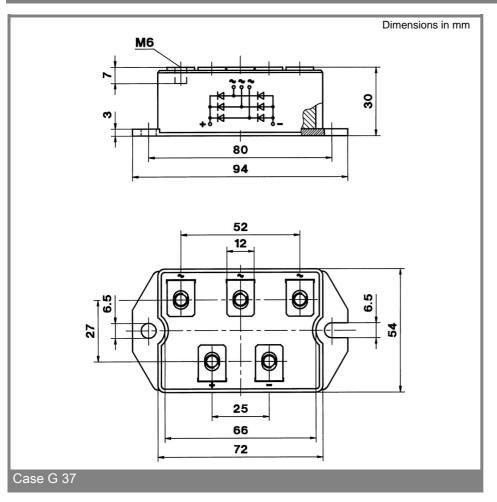








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