



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 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

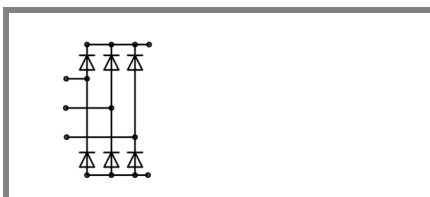
1) Available in limited quantities

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

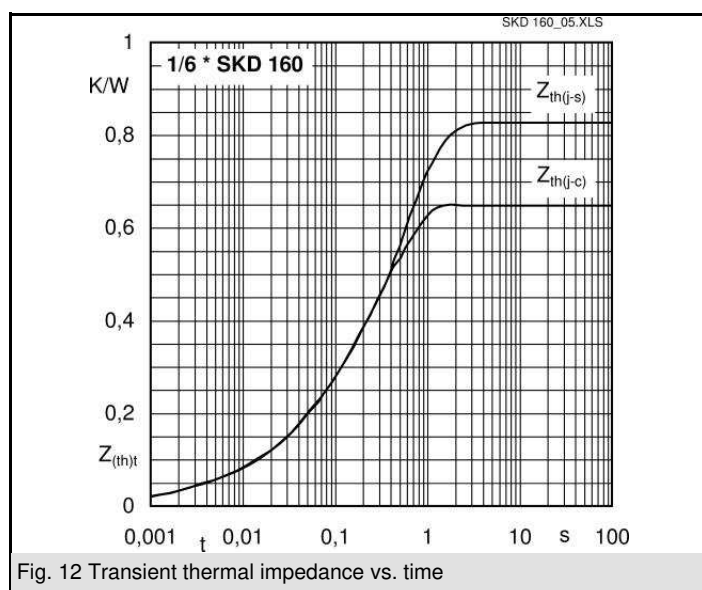
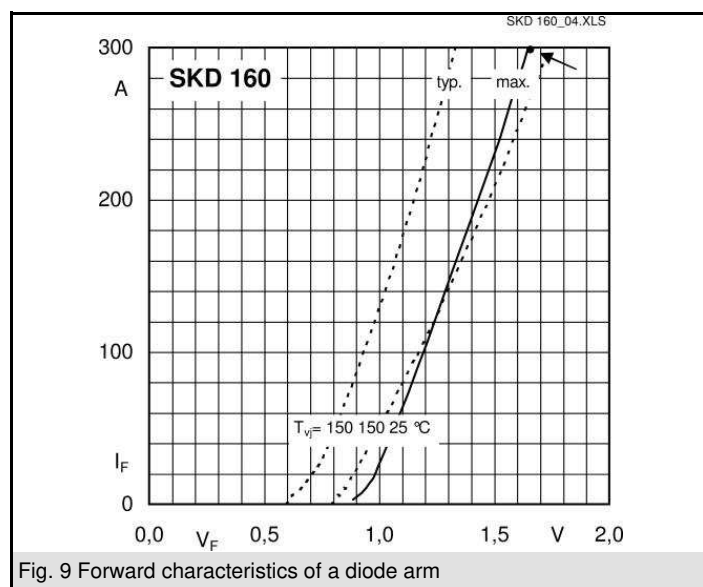
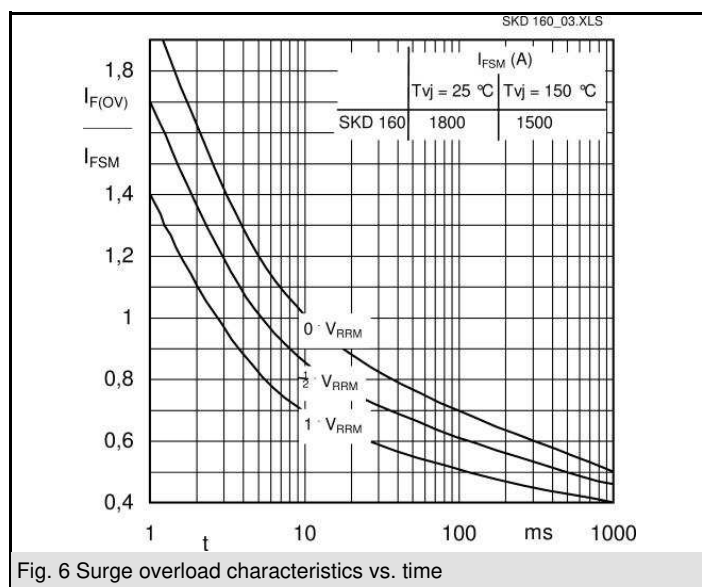
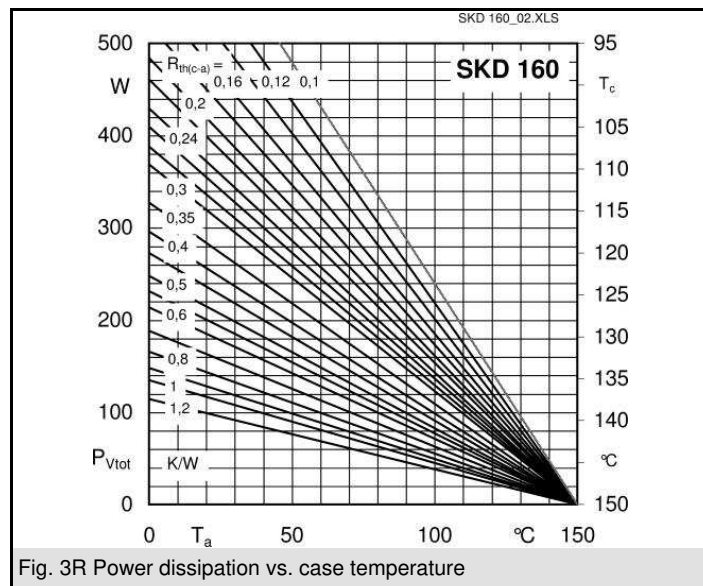
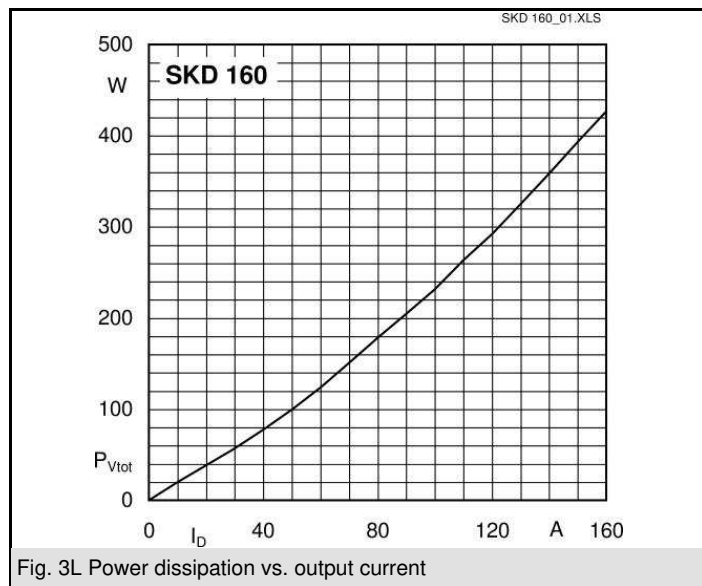
$R_{th(c-a)} = 1,8 \text{ K/W}$

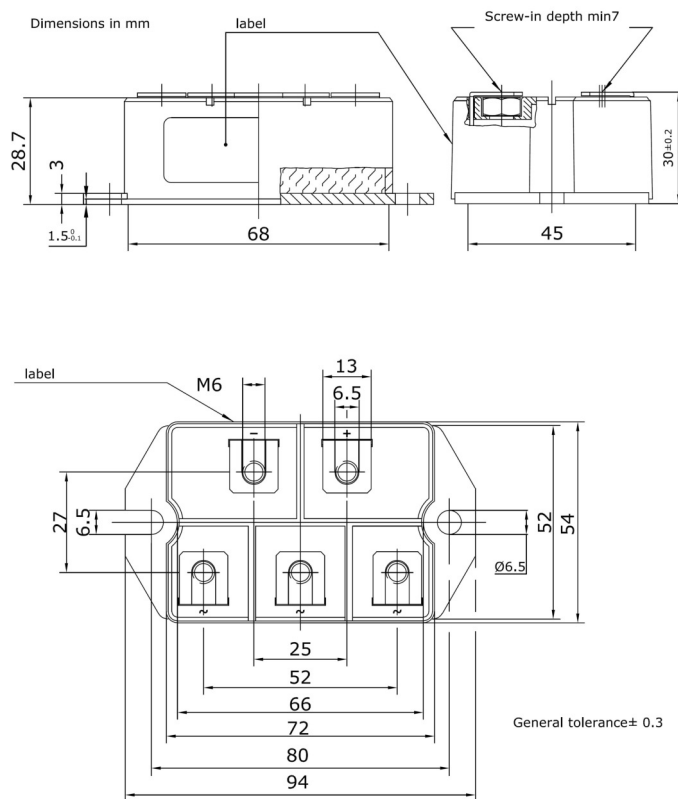
V_{RSM} V	V_{RRM}, V_{DRM} V	$I_D = 160 \text{ A}$ (full conduction) ($T_c = 100^\circ \text{C}$)
800	800	SKD 160/08
1200	1200	SKD 160/12
1400	1400	SKD 160/14
1600	1600	SKD 160/16
1800	1800	SKD 160/18 ¹⁾

Symbol	Conditions	Values	Units
I_D	$T_c = 85^\circ \text{C}$ $T_a = 45^\circ \text{C}$; chassis ²⁾ $T_a = 45^\circ \text{C}$; P1/200 $T_a = 35^\circ \text{C}$; P1/120F $T_a = 35^\circ \text{C}$; P3/120F	205 30 75 145 146	A A A A A
I_{FSM}	$T_{vj} = 25^\circ \text{C}$; 10 ms $T_{vj} = 150^\circ \text{C}$; 10 ms	1800 1500	A A
i^2t	$T_{vj} = 25^\circ \text{C}$; 8,3 ... 10 ms $T_{vj} = 150^\circ \text{C}$; 8,3 ... 10 ms	16200 11200	A ² s A ² s
V_F $V_{(TO)}$ r_T I_{RD}	$T_{vj} = 25^\circ \text{C}$; $I_F = 300 \text{ A}$ $T_{vj} = 150^\circ \text{C}$ $T_{vj} = 150^\circ \text{C}$ $T_{vj} = 25^\circ \text{C}$; $V_{DD} = V_{DRM}$; $V_{RD} = V_{RRM}$ $T_{vj} = 150^\circ \text{C}$; $V_{RD} = V_{RRM}$	max. 1,65 max. 0,85 max. 3 max. 0,5 6	V V mΩ mA mA
$R_{th(j-c)}$ $R_{th(c-s)}$	per diode total total	0,65 0,11 0,03	K/W K/W K/W
T_{vj} T_{stg}		- 40 ... + 150 - 40 ... + 125	°C °C
V_{isol} M_s M_t m	a. c. 50 Hz; r.m.s.; 1 s / 1 min. to heatsink to terminals	3600 (3000) $5 \pm 15 \%$ $5 \pm 15 \%$ 270	V Nm Nm g
Case		G 37	



SKD





Case G 37

This is an electrostatic discharge sensitive device (ESDS) due to international standard IEC 61340.

*IMPORTANT INFORMATION AND WARNINGS

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