



SEMIPONT[®] 2

Power Bridge Rectifiers

SKD 60

Features

- Robust plastic case with screw terminals
- Large, isolated base plate
- Blocking voltage to 1600 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) Painted metal sheet of minimum 250 x 250 x 1 mm: $R_{th(c-a)} = 1,8 \text{ K/W}$

V_{RSM} V	V_{RRM}, V_{DRM} V	$I_D = 60 \text{ A}$ (full conduction) ($T_c = 102 \text{ }^\circ\text{C}$)
400	400	SKD 60/04
800	800	SKD 60/08
1200	1200	SKD 60/12
1400	1400	SKD 60/14
1600	1600	SKD 60/16

Symbol	Conditions	Values	Units
I_D	$T_c = 85 \text{ }^\circ\text{C}$ inductive load	92	A
	$T_a = 45 \text{ }^\circ\text{C}$, chassis ¹⁾	21	A
	$T_a = 45 \text{ }^\circ\text{C}$; P13A/125 (R4A/120)	27 (30)	A
	$T_a = 35 \text{ }^\circ\text{C}$; P1A/120F (P1A/200F)	85 (112)	A
I_{FSM}	$T_{vj} = 25 \text{ }^\circ\text{C}$; 10 ms	1000	A
	$T_{vj} = 125 \text{ }^\circ\text{C}$; 10 ms	850	A
i^2t	$T_{vj} = 25 \text{ }^\circ\text{C}$; 8,3 ... 10 ms	5000	A ² s
	$T_{vj} = 125 \text{ }^\circ\text{C}$; 8,3 ... 10 ms	3600	A ² s
V_F	$T_{vj} = 25 \text{ }^\circ\text{C}$; $I_F = 150 \text{ A}$	max. 1,6	V
$V_{(TO)}$	$T_{vj} = 125 \text{ }^\circ\text{C}$	max. 0,85	V
r_T	$T_{vj} = 125 \text{ }^\circ\text{C}$	max. 5	mΩ
I_{RD}	$T_{vj} = 25 \text{ }^\circ\text{C}$; $V_{DD} = V_{DRM}$; $V_{RD} = V_{RRM}$	max. 0,5	mA
	$T_{vj} = 125 \text{ }^\circ\text{C}$; $V_{RD} = V_{RRM}$	2	mA
$R_{th(f-c)}$	per diode	1	K/W
	total	0,167	K/W
$R_{th(c-s)}$	total	0,05	K/W
T_{vj}		- 40 ... + 125	$^\circ\text{C}$
T_{stg}		- 40 ... + 125	$^\circ\text{C}$
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 (3000)	V
M_s	to heatsink	$5 \pm 15 \%$	Nm
M_t	to terminals	$5 \pm 15 \%$	Nm
m		165	g
Case		G 18	



SKD

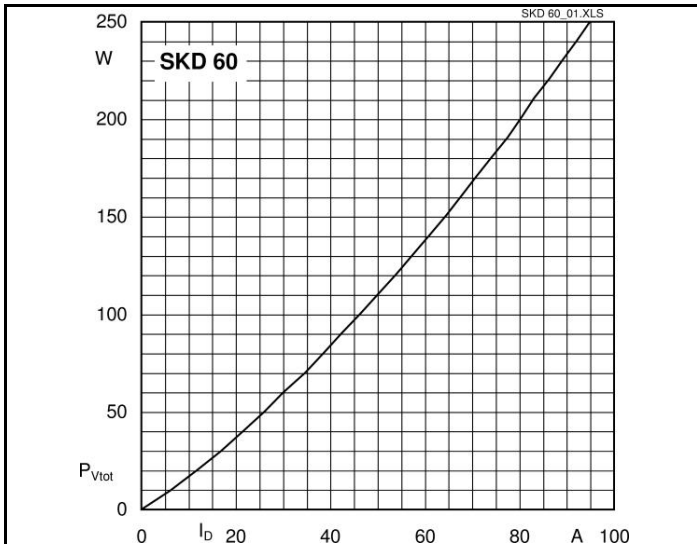


Fig. 3L Power dissipation vs. output current

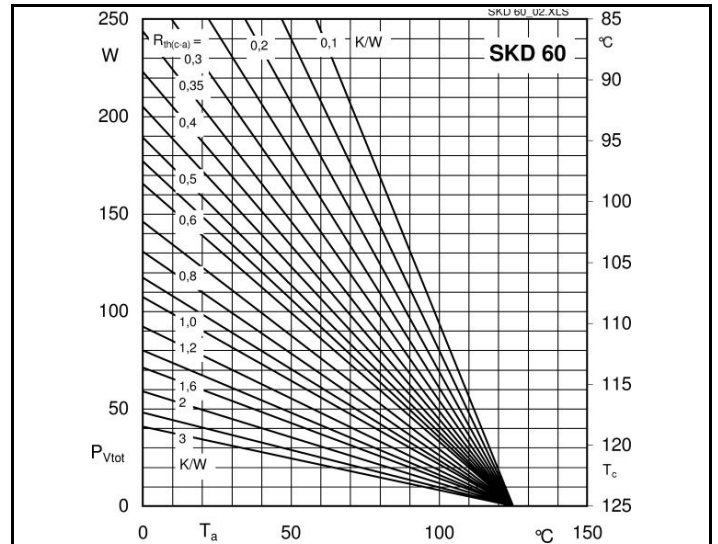


Fig. 3R Power dissipation vs. case temperature

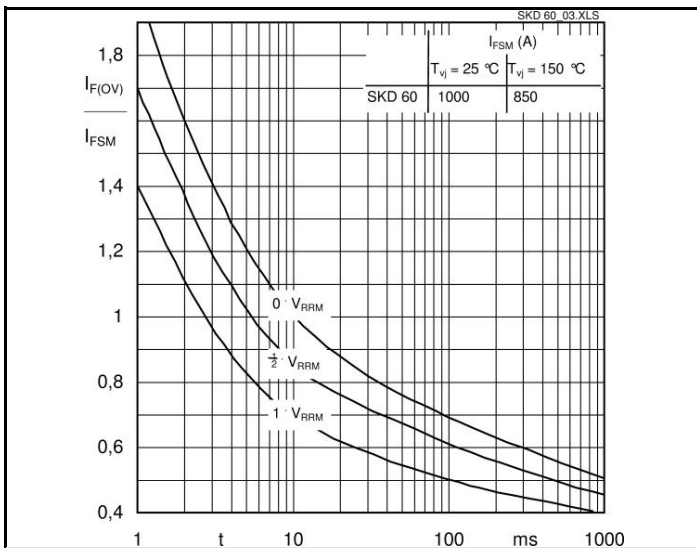


Fig. 6 Surge overload characteristics vs. time

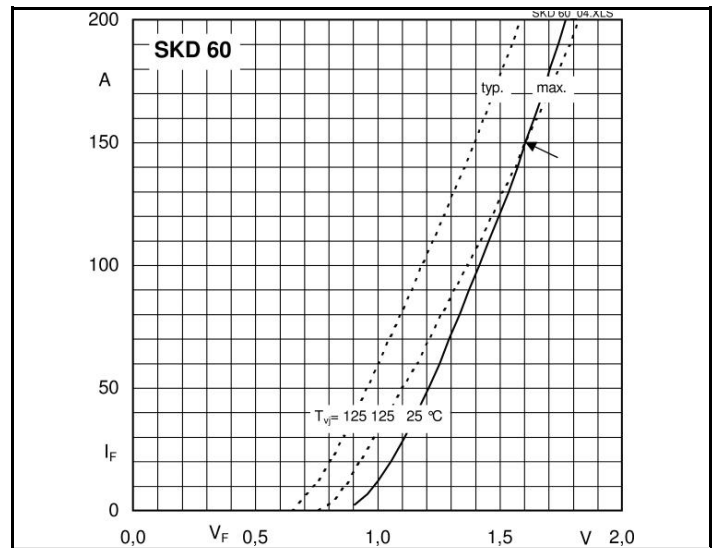


Fig. 9 Forward characteristics of a diode arm

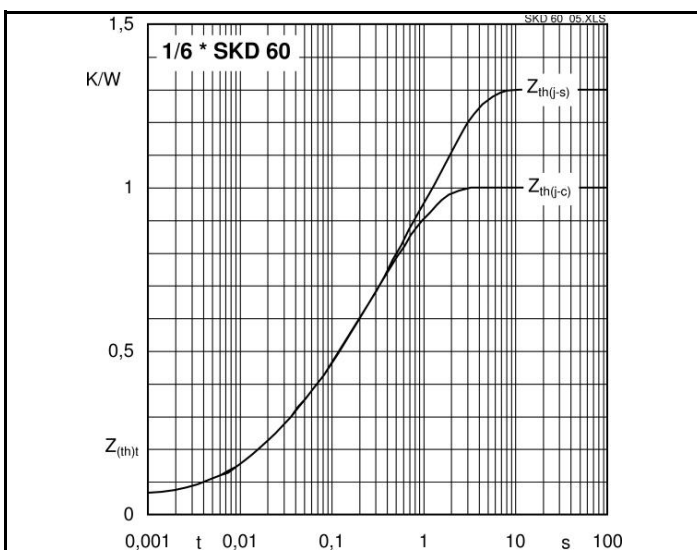
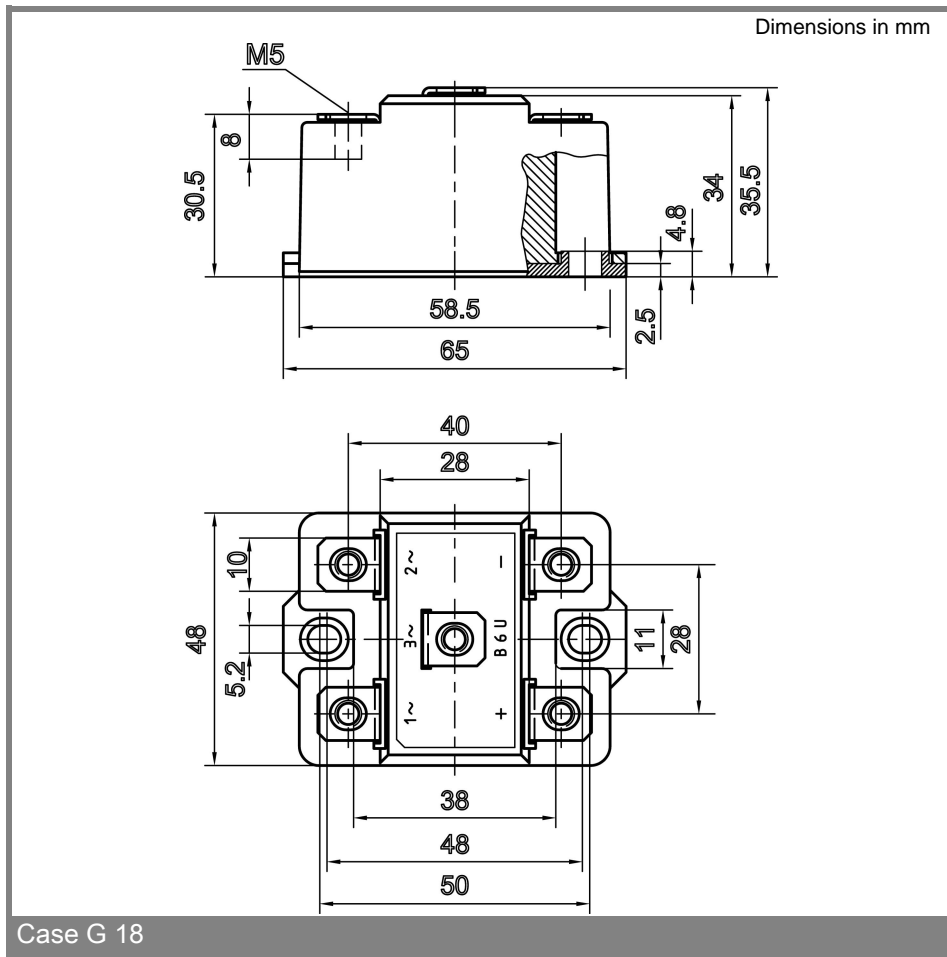


Fig. 12 Transient thermal impedance vs. time



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