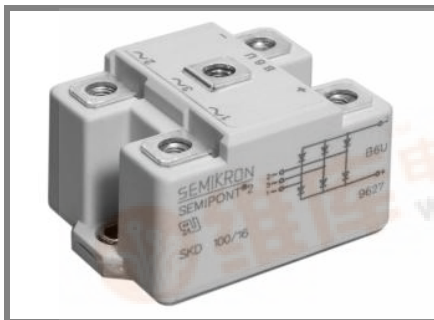


SKD 100



SEMIPONT[®] 2

Power Bridge Rectifiers

SKD 100

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

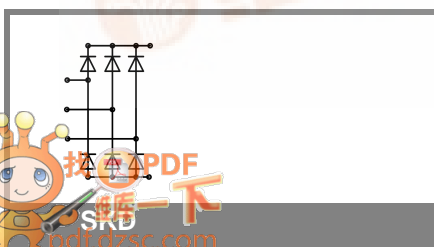
Typical Applications

- Three phase rectifiers for power supplies
- Input rectifiers for variable frequency drives
- Rectifiers for DC motor field supplies
- Battery charger rectifiers

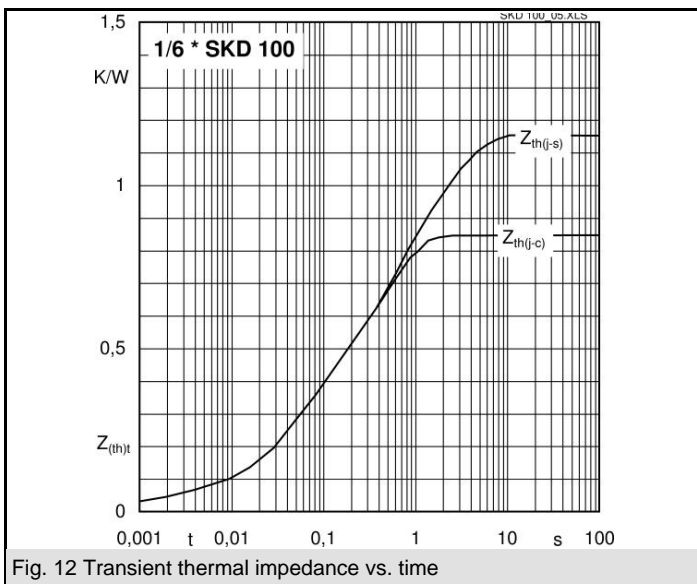
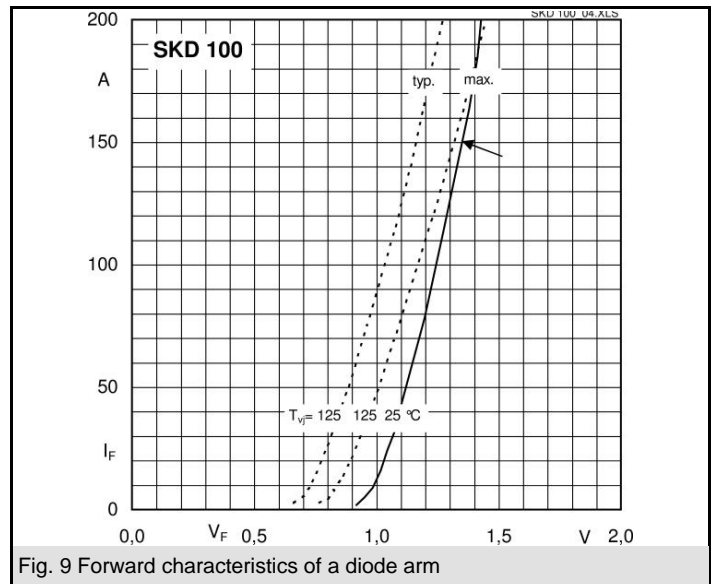
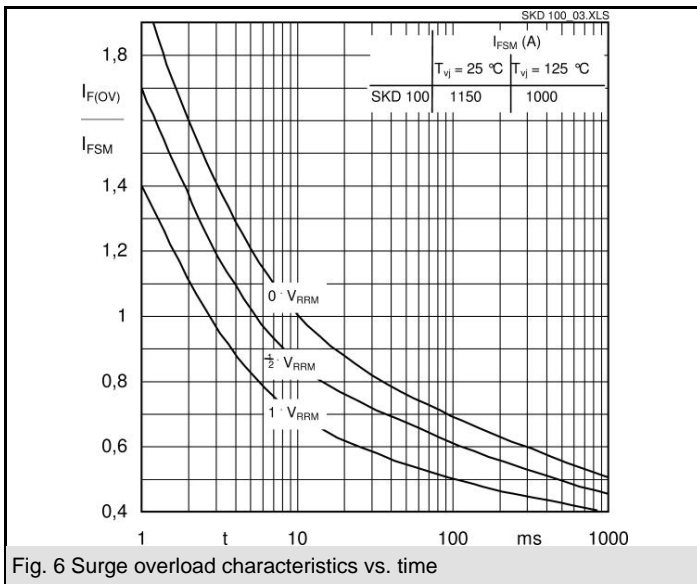
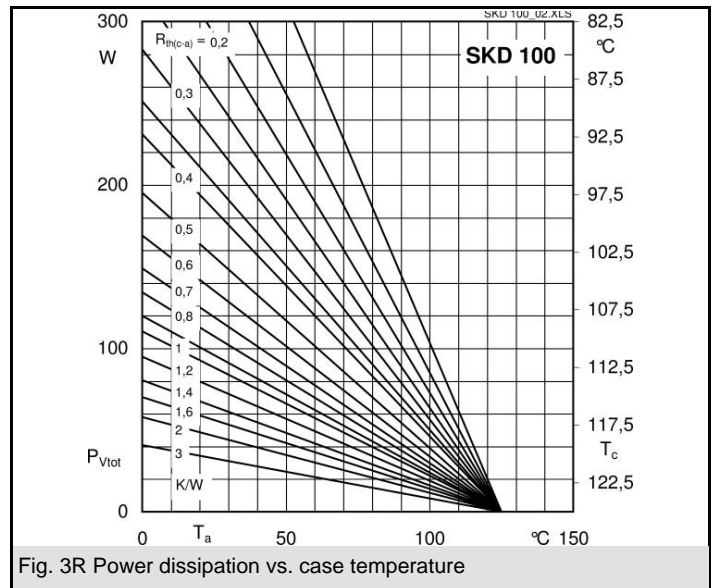
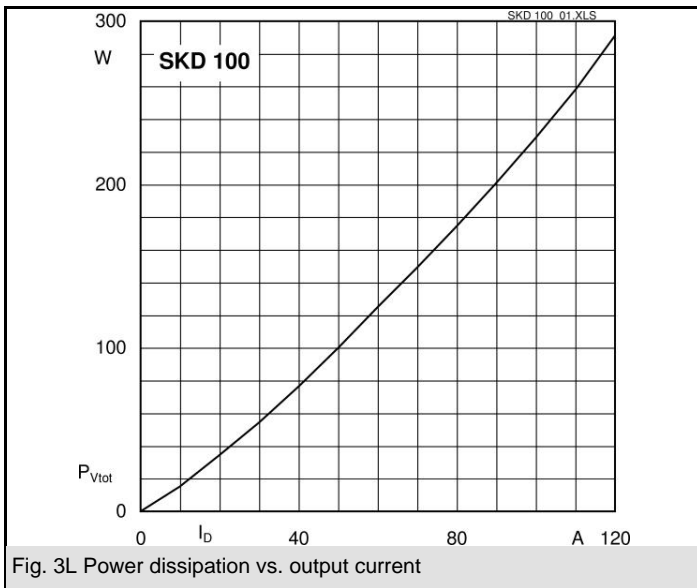
1) Painted metal sheet of minimum 250 x 250 x 1 mm: $R_{th(c-a)} = 1,8 \text{ K/W}$

V_{RSM} V	V_{RRM}, V_{DRM} V	$I_D = 100 \text{ A (full conduction)}$ ($T_c = 93 \text{ °C}$)
400	400	SKD 100/04
800	800	SKD 100/08
1200	1200	SKD 100/12
1400	1400	SKD 100/14
1600	1600	SKD 100/16

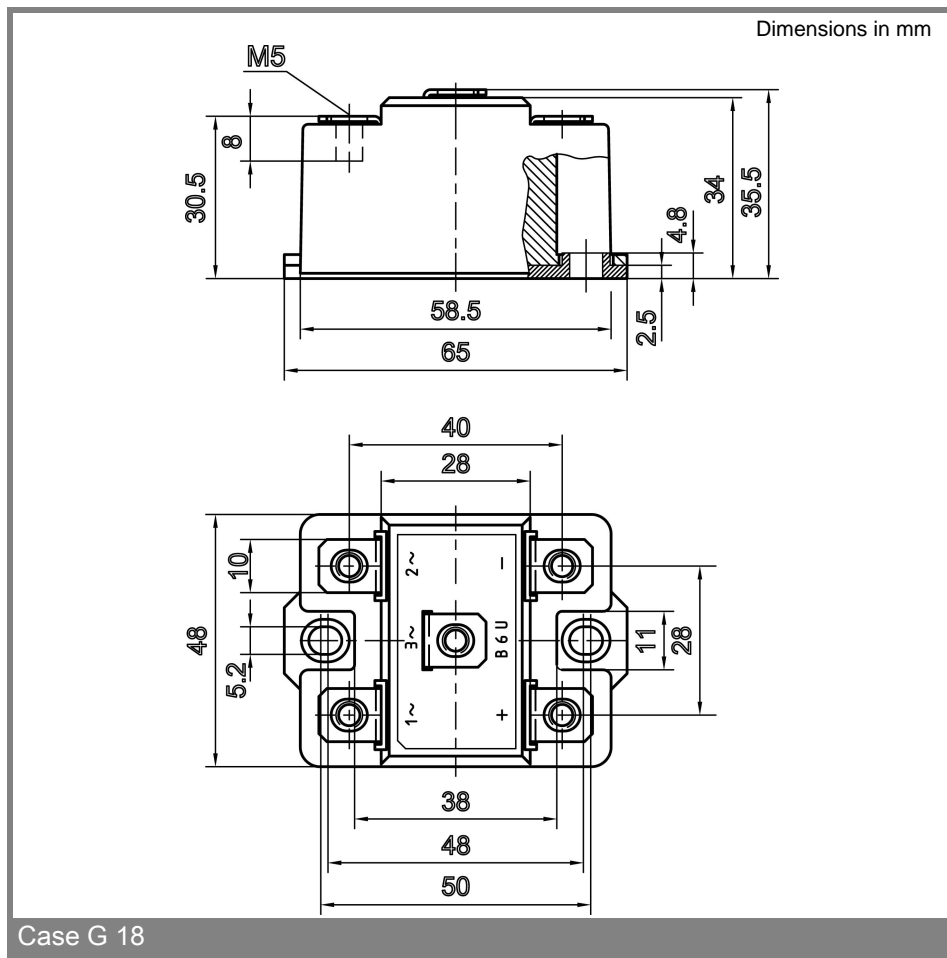
Symbol	Conditions	Values	Units
I_D	$T_c = 85 \text{ °C}$ inductive load	110	A
	$T_a = 45 \text{ °C, chassis } ^1)$	24	A
	$T_a = 45 \text{ °C; P13A/125 (P1A/120)}$	28 (54)	A
	$T_a = 35 \text{ °C, P1A/120F (P1A/200F)}$	100 (120)	A
	$T_{vj} = 25 \text{ °C; 10 ms}$	1150	A
i_{FSM}	$T_{vj} = 125 \text{ °C; 10 ms}$	1000	A
	$T_{vj} = 25 \text{ °C; 8,3 ... 10 ms}$	6600	A ² s
i^2t	$T_{vj} = 125 \text{ °C; 8,3 ... 10 ms}$	5000	A ² s
	$T_{vj} = 25 \text{ °C; } I_F = 150 \text{ A}$	max. 1,35	V
V_F	$T_{vj} = 125 \text{ °C}$	max. 0,85	V
$V_{(TO)}$	$T_{vj} = 125 \text{ °C}$	max. 5	mΩ
r_T	$T_{vj} = 25 \text{ °C; } V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$	max. 0,5	mA
I_{RD}	$T_{vj} = 125 \text{ °C; } V_{RD} = V_{RRM}$	2	mA
$R_{th(j-c)}$	per diode	0,85	K/W
	total	0,14	K/W
$R_{th(c-s)}$	total	0,05	K/W
	T_{vj}	- 40 ... + 125	°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 18	



SKD 100



SKD 100



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