



SEMIPONT® 4

Power Bridge Rectifiers

SKD 110

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

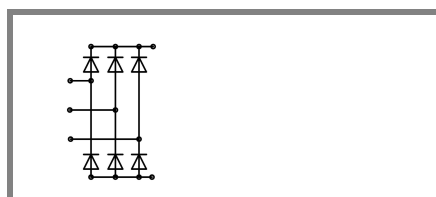
1) Available in limited quantities

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

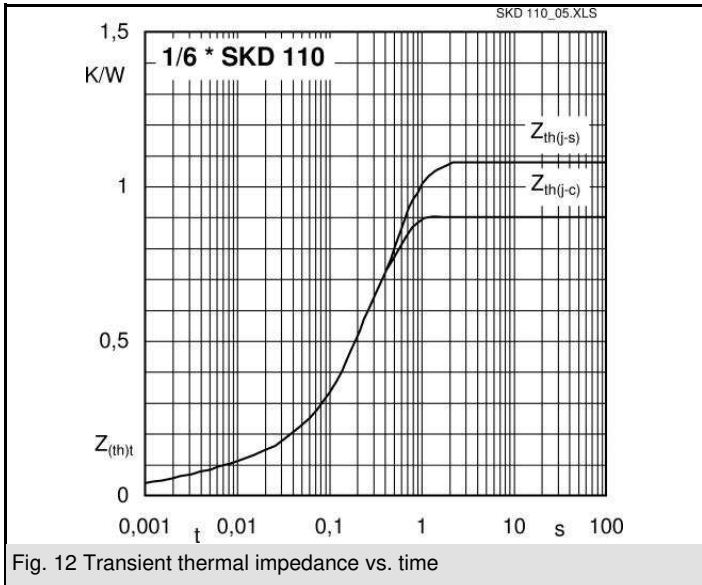
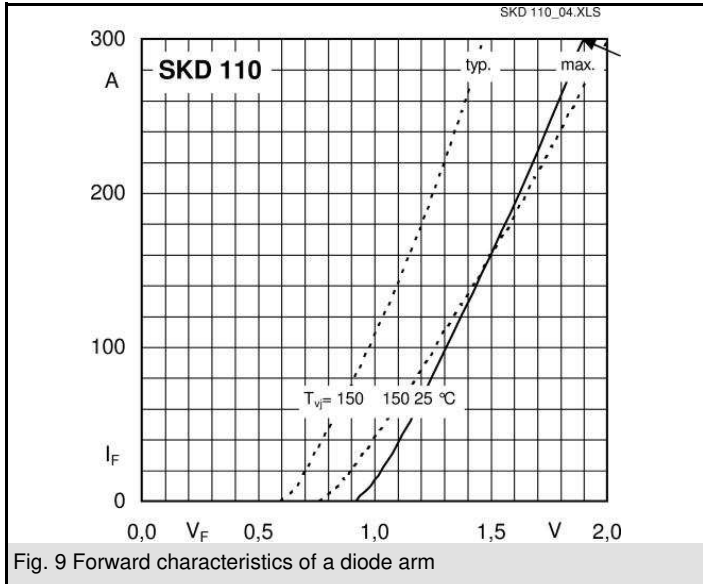
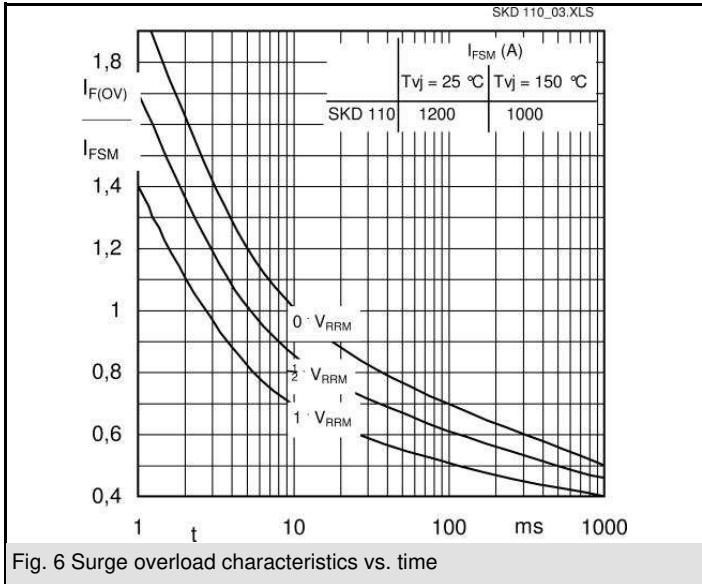
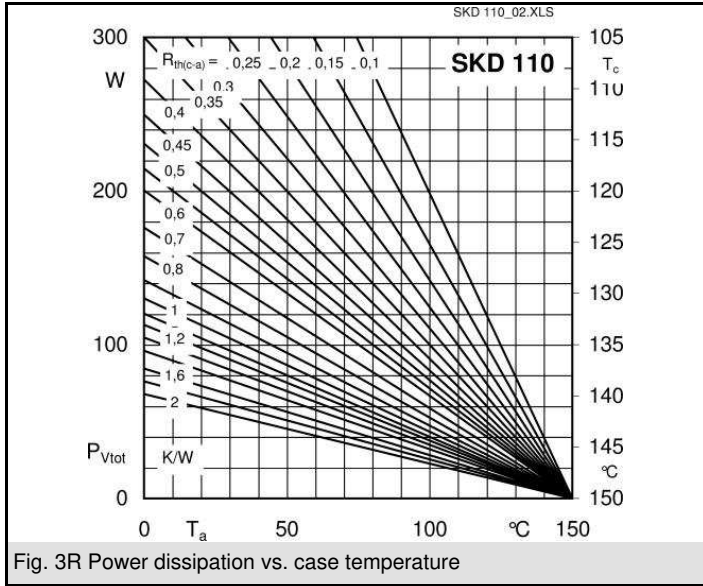
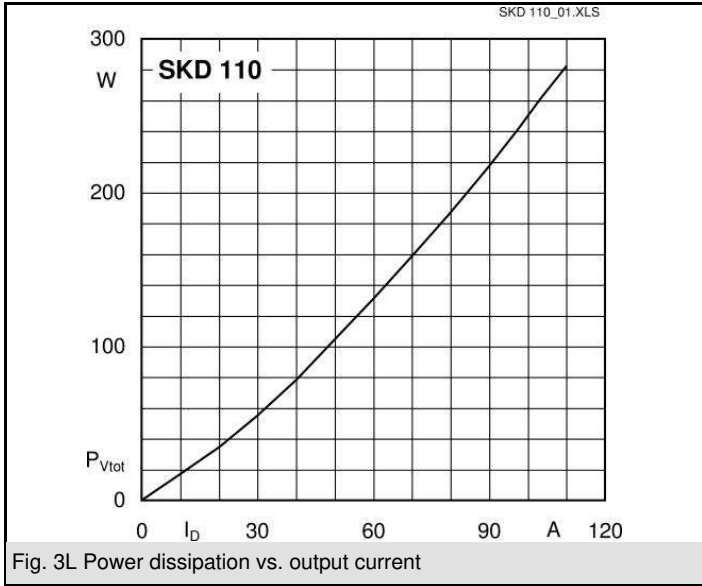
$R_{th(c-a)} = 1,8 \text{ K/W}$

V_{RSM} V	V_{RRM}, V_{DRM} V	$I_D = 110 \text{ A (full conduction)}$ ($T_c = 100 \text{ °C}$)
800	800	SKD 110/08
1200	1200	SKD 110/12
1400	1400	SKD 110/14
1600	1600	SKD 110/16
1800	1800	SKD 110/18 ¹⁾

Symbol	Conditions	Values	Units
I_D	$T_c = 85 \text{ °C}$ $T_a = 45 \text{ °C; chassis } ^2)$ $T_a = 45 \text{ °C; P1/200}$ $T_a = 35 \text{ °C; P1/120 F}$ $T_a = 35 \text{ °C; P3/120 F}$	151 28 70 110 123	A A A A A
I_{FSM}	$T_{vj} = 25 \text{ °C; 10 ms}$ $T_{vj} = 150 \text{ °C; 10 ms}$	1200 1000	A A
i^2t	$T_{vj} = 25 \text{ °C; 8,3 ... 10 ms}$ $T_{vj} = 150 \text{ °C; 8,3 ... 10 ms}$	7200 5000	A ² s A ² s
V_F	$T_{vj} = 25 \text{ °C; } I_F = 300 \text{ A}$	max. 1,9	V
$V_{(TO)}$	$T_{vj} = 150 \text{ °C}$	max. 0,85	V
r_T	$T_{vj} = 150 \text{ °C}$	max. 4	mΩ
I_{RD}	$T_{vj} = 25 \text{ °C; } V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$ $T_{vj} = 150 \text{ °C; } V_{RD} = V_{RRM}$	max. 0,5 5	mA mA
$R_{th(j-c)}$	per diode	0,9	K/W
$R_{th(c-s)}$	total	0,15	K/W
	total	0,03	K/W
T_{vj}		- 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	



SKD



*IMPORTANT INFORMATION AND WARNINGS

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