

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

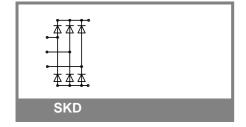
Typical Applications

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

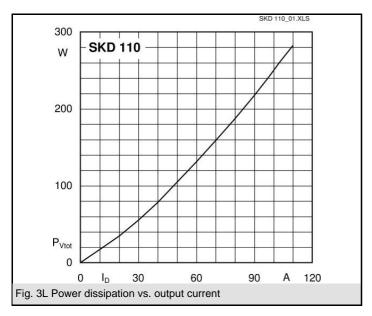
$$R_{th(c-a)} = 1.8 \text{ K/W}$$

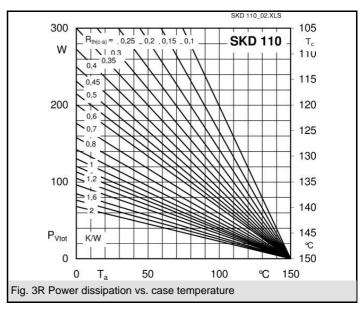
V _{RSM} V	V _{RRM} , V _{DRM} V	$I_D = 110 \text{ A (full conduction)}$ $(T_C = 100 ^{\circ}\text{C})$
		,
800	800	SKD 110/08
1200	1200	SKD 110/12
1400	1400	SKD 110/14
1600	1600	SKD 110/16
1800	1800	SKD 110/18 ¹⁾

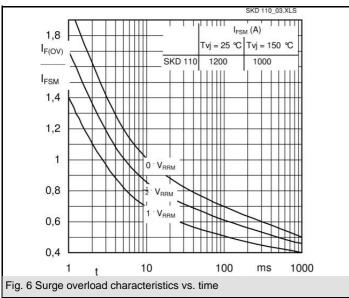
Symbol	Conditions	Values	Units
I _D	T _c = 85 °C	151	Α
	T _a = 45 °C; chassis ²⁾	28	Α
	T _a = 45 °C; P1/200	70	Α
	T _a = 35 °C; P1/120 F	110	Α
	T _a = 35 °C; P3/120 F	123	Α
I _{FSM}	T _{vj} = 25 °C; 10 ms	1200	A
	T _{vj} = 150 °C; 10 ms	1000	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	7200	A²s
	T _{vj} = 150 °C; 8,3 10 ms	5000	A²s
V_{F}	T _{vi} = 25 °C; I _F = 300 A	max. 1,9	V
$V_{(TO)}$	T _{vi} = 150 °C	max. 0,85	V
r _T	T _{vi} = 150 °C	max. 4	mΩ
I_{RD}	T_{vj} = 25 °C; V_{DD} = V_{DRM} ; V_{RD} = V_{RRM}	max. 0,5	mA
	T_{vj} = 150 °C, V_{RD} = V_{RRM}	5	mA
R _{th(j-c)}	per diode	0,9	K/W
trig-c)	total	0,15	K/W
$R_{th(c-s)}$	total	0,03	K/W
T _{vi}		- 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	

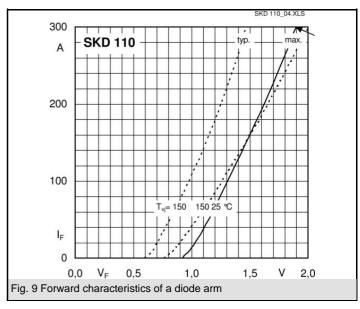


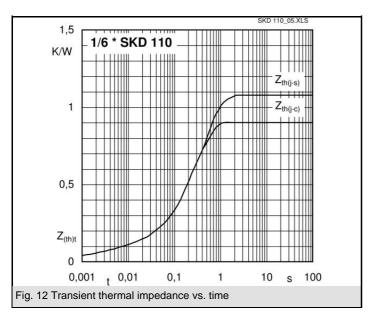
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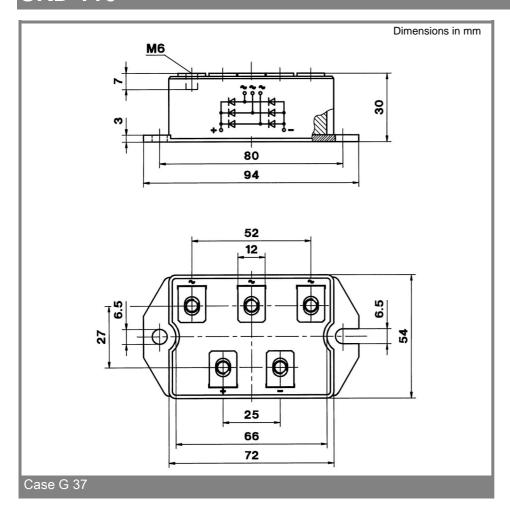












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