SKKE 600

SEMIPACK® 4

Rectifier Diode Modules

SKKE 600

Preliminary Data

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precisious metal pressure contacts for high reliability
- UL recognized, file no. E 63 532

Typical Applications

- Rectifiers

1) The screws must be lubricated

V_{RSM} V	V_{RRM} V	I_{FRMS} = 930 A (maximum value for continuous operation) I_{FAV} = 600 A (sin. 180; T_c = 100 °C)		
1200	1200	SKKE 600/12		
1600	1600	SKKE 600/16		
2000	2000	SKKE 600/20 H4		
2200	2200	SKKE 600/22 H4		

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; T_c = 100 (85) °C	600 (725)	A
I_{FSM}	T_{vj} = 25 °C; 10 ms	22000	A
	T_{vj} = 150 °C; 10 ms	18000	A
i²t	T_{vj} = 25 °C; 8,3 ... 10 ms	2420000	A²s
	T_{vj} = 150 °C; 8,3 ... 10 ms	1805000	A²s
V_F	T_{vj} = 25 °C; I_F = 3000 A	max. 1,5	V
$V_{(TO)}$	T_{vj} = 150 °C;	0,75	V
r_T	T_{vj} = 150 °C;	0,25	mΩ
I_{RD}	T_{vj} = 150 °C; V_{RD} = V_{RRM}	max. 20	mA
$R_{th(j-c)}$	cont.; per diode = per module	0,07	K/W
	sin. 180; per diode = per module	0,075	K/W
$R_{th(c-h)}$	per diode = per module	0,02	K/W
T_{vj}		- 40 ... + 150	°C
T_{stg}		- 40 ... + 130	°C
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min	3600 / 3000	V~
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min for SKKE...H4	4800 / 4000	V~
M_s	to heatsink	5 ± 15%	Nm
M_t	to terminals	17 ± 15 % 1)	Nm
a		5 * 9,81	m/s²
m	approx.	940	g
Case		A 42	

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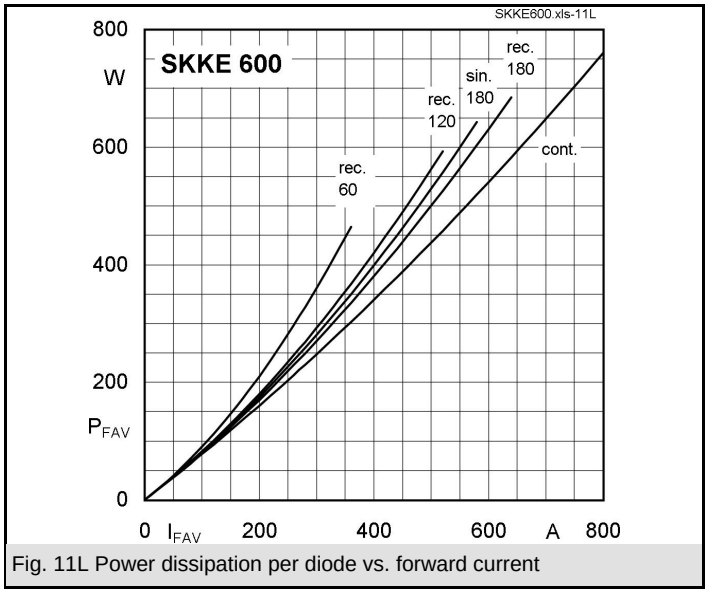


Fig. 11L Power dissipation per diode vs. forward current

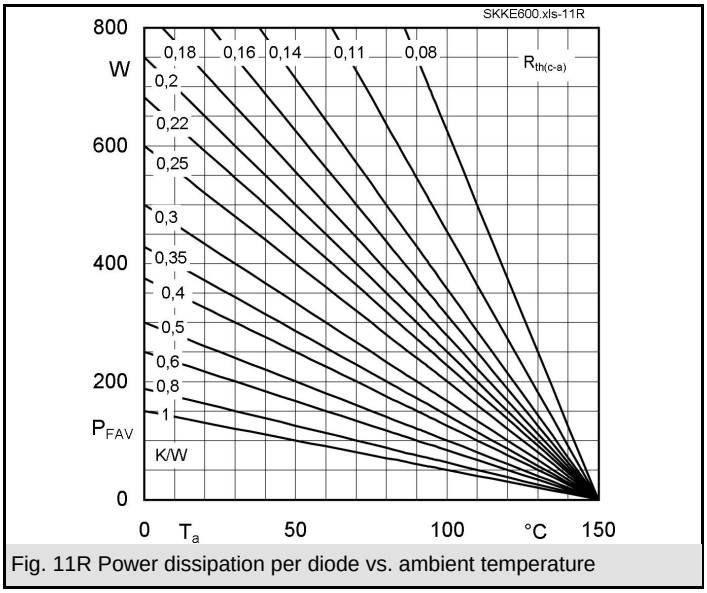


Fig. 11R Power dissipation per diode vs. ambient temperature

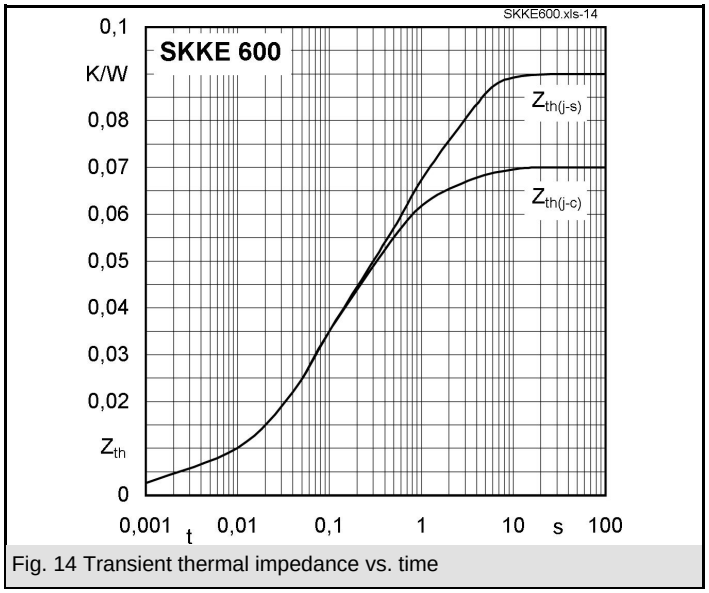


Fig. 14 Transient thermal impedance vs. time

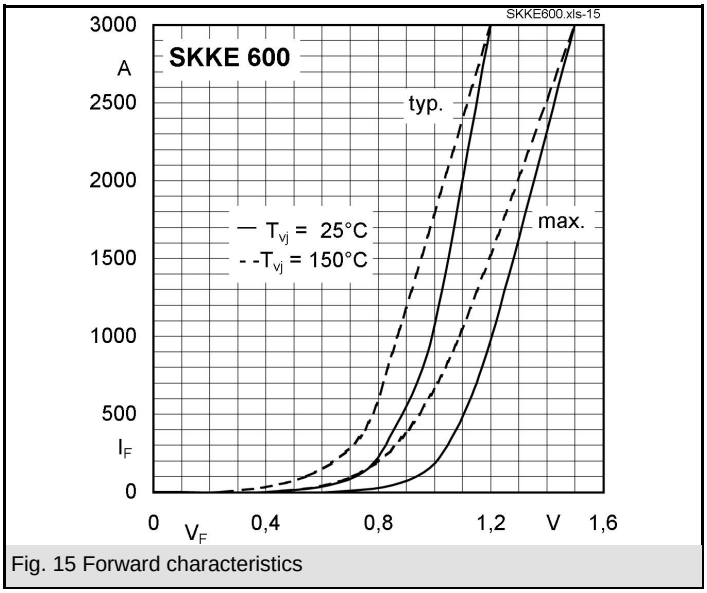


Fig. 15 Forward characteristics

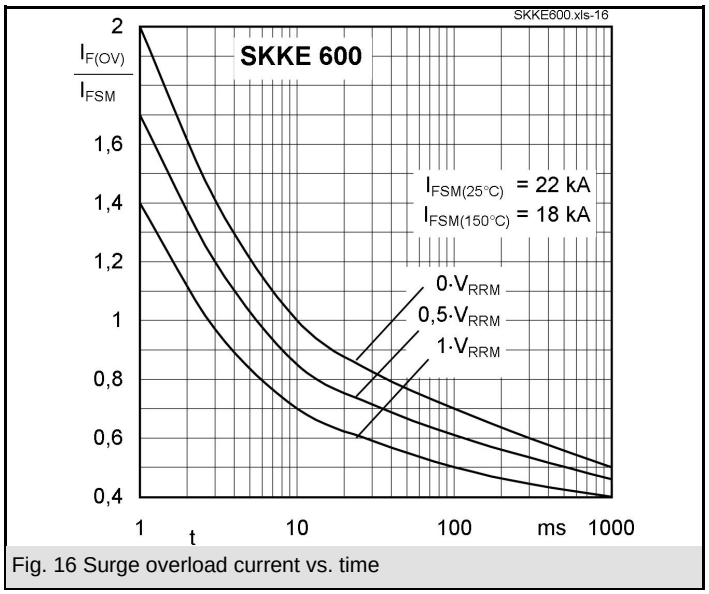
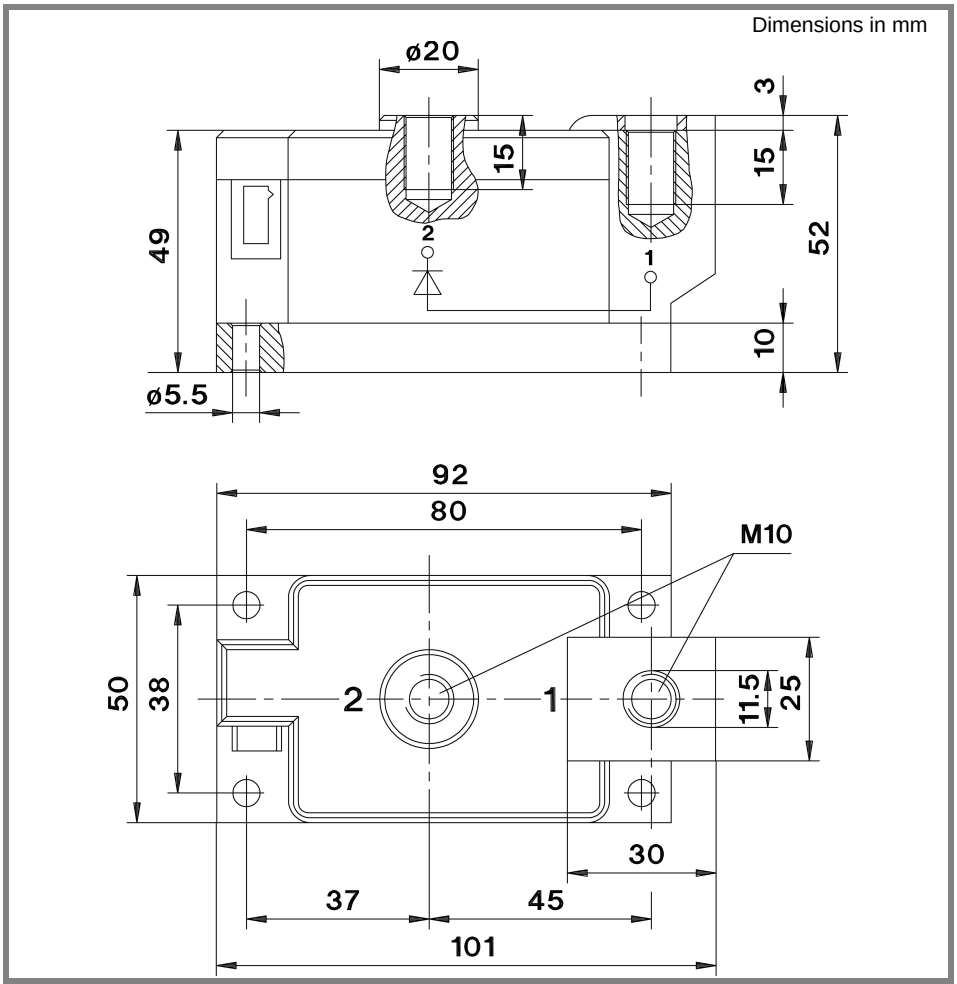


Fig. 16 Surge overload current vs. time



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