SKKE 600

SEMIPACK® 4

Rectifier Diode Modules

SKKE 600

Features

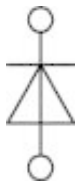
- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precisious metal pressure contacts for high reliability
- UL recognized, file no. E 63 532

Typical Applications*

- Rectifiers

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 600/20H4		
2200	2200	SKKE 600/22H4		

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; T_c = 100 °C	600	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	max. 0,75	V
r_T	T_{vj} = 150 °C	max. 0,25	mΩ
I_{RD}	T_{vj} = 150 °C; V_{RD} = V_{RRM}	max. 15	mA
$R_{th(j-c)}$	cont.; per diode = per module	0,07	K/W
	sin. 180; per diode = per module	0,075	K/W
$R_{th(c-s)}$	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 %	Nm
a		5 * 9,81	m/s²
m	approx.	940	g
Case		A 42	



SKKE

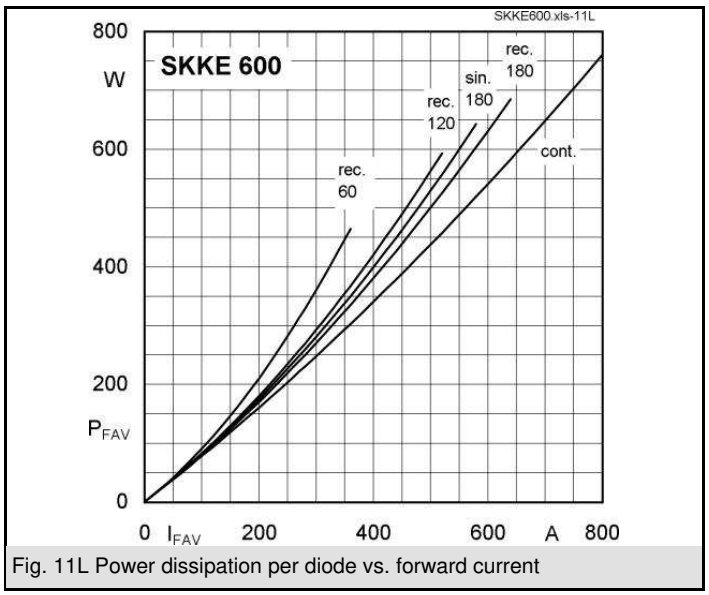


Fig. 11L Power dissipation per diode vs. forward current

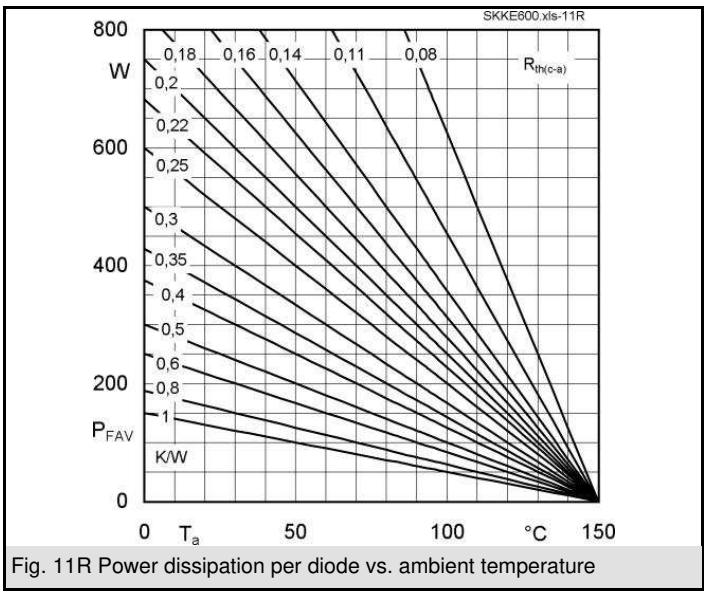


Fig. 11R Power dissipation per diode vs. ambient temperature

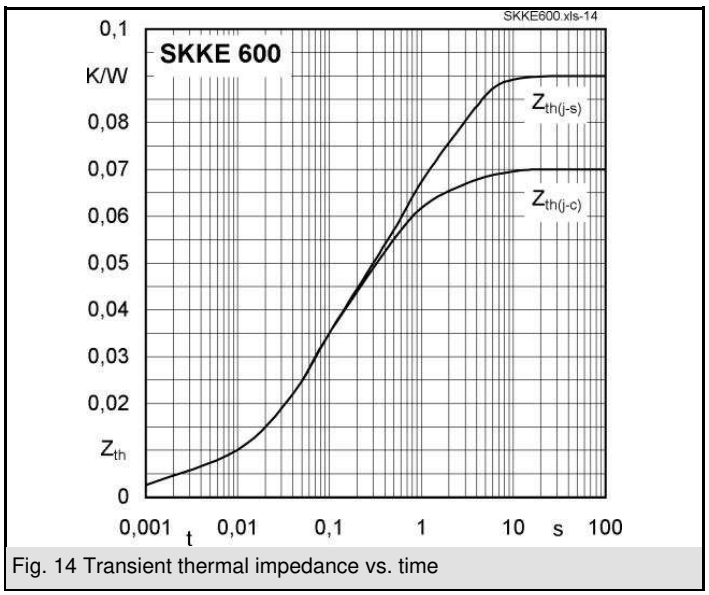


Fig. 14 Transient thermal impedance vs. time

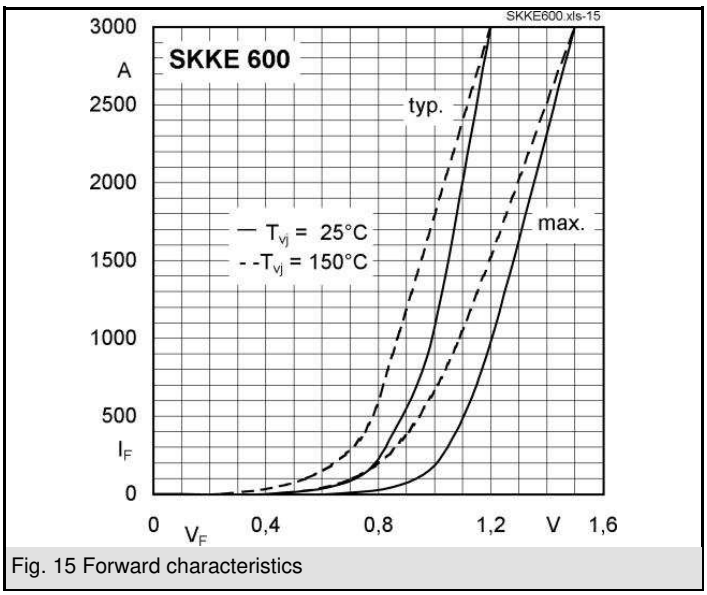


Fig. 15 Forward characteristics

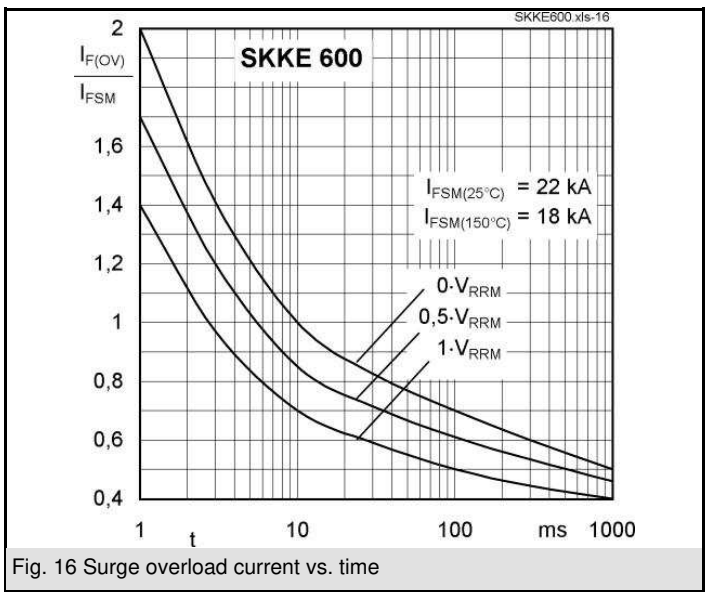
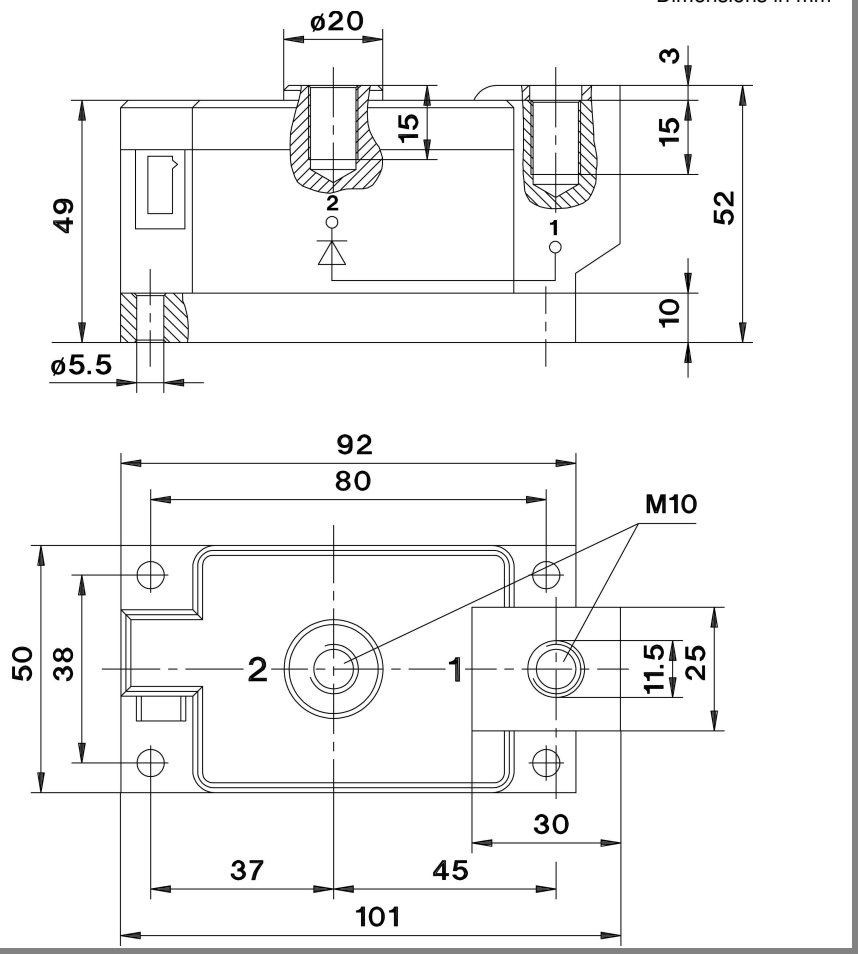


Fig. 16 Surge overload current vs. time

Dimensions in mm



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* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our staff.

