

SKKE 380

V_{RSM}	V_{RRM}	I_{FRMS} (maximum values for continuous operation) 600 A
V	V	I_{FAV} (sin. 180; $T_{case} = 100\text{ °C}$) 380 A
1300 1700	1200 1600	SKKE 380/12 SKKE 380/16

SEMIPACK® 3 Rectifier Diode Modules

SKKE 380



SKKE

Symbol	Conditions	SKKE 380	Units
I_{FAV}	sin. 180; $T_{case} = 100\text{ °C}$	380	A
I_{FSM}	$T_{vj} = 25\text{ °C}; 10\text{ ms}$ $T_{vj} = 150\text{ °C}; 10\text{ ms}$	11 000 10 000	A A
i^2t	$T_{vj} = 25\text{ °C}; 8,3 \dots 10\text{ ms}$ $T_{vj} = 150\text{ °C}; 8,3 \dots 10\text{ ms}$	605 000 500 000	A^2s A^2s
I_{RD}	$T_{vjmax.}; V_{RD} = V_{RRM}$	15	mA
V_F	$T_{vj} = 25\text{ °C}; I_F = 1000\text{ A}$	max. 1,25	V
$V_{(TO)}$	$T_{vj} = 150\text{ °C}$	0,8	V
r_T	$T_{vj} = 150\text{ °C}$	0,35	$m\Omega$
R_{thjc}	cont. per diode = per module sin. 180 per diode = per module	0,11 0,116	$^{\circ}C/W$ $^{\circ}C/W$
R_{thch}	per diode = per module	0,04	$^{\circ}C/W$
T_{vj}		- 40 ... + 150	$^{\circ}C$
T_{stg}		- 40 ... + 130	$^{\circ}C$
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s/1 min	3600/3000	V~
M_1	to heatsink	$5 \pm 15\% \text{ }^1$	Nm
		$44 \pm 15\% \text{ }^1$	lb.in.
M_2	to terminals	$9 \pm 15\% \text{ }^2$	Nm
		$80 \pm 15\% \text{ }^2$	lb.in.
a		$5 \cdot 9,81$	m/s^2
w	approx.	620	g
Case		A 77a	

Features

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

Typical Applications

- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

¹⁾ See the assembly instructions
²⁾ The screws must be lubricated

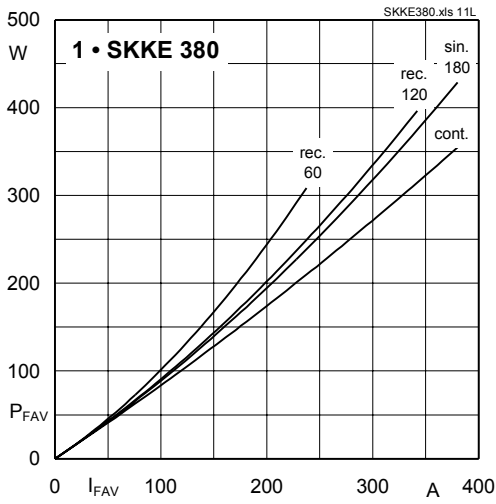


Fig. 11L Power dissipation per diode vs. on-state current

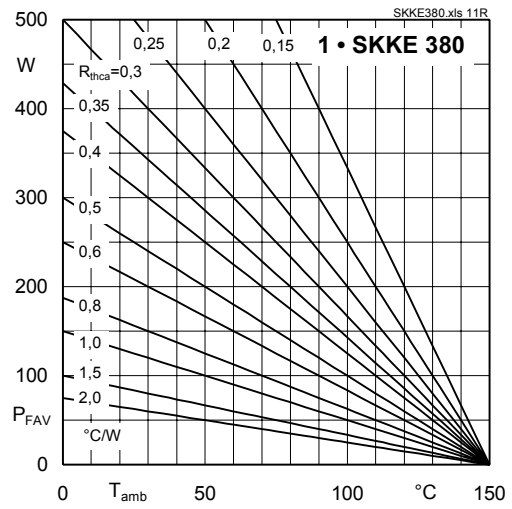


Fig. 11R Power dissipation per diode vs. ambient temp.

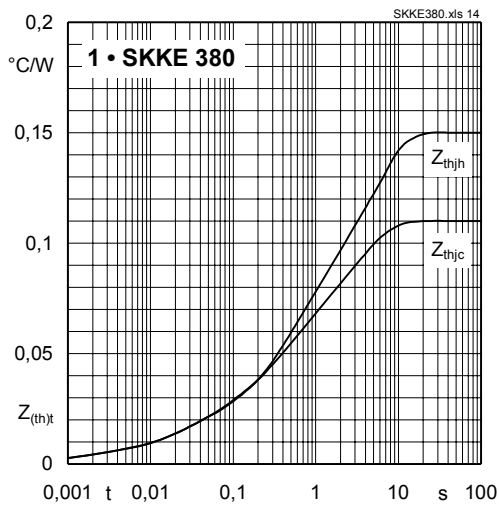


Fig. 14 Transient thermal impedance vs. time

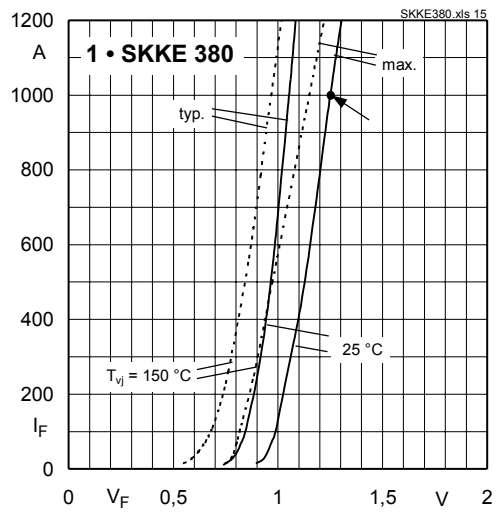


Fig. 15 Forward characteristics

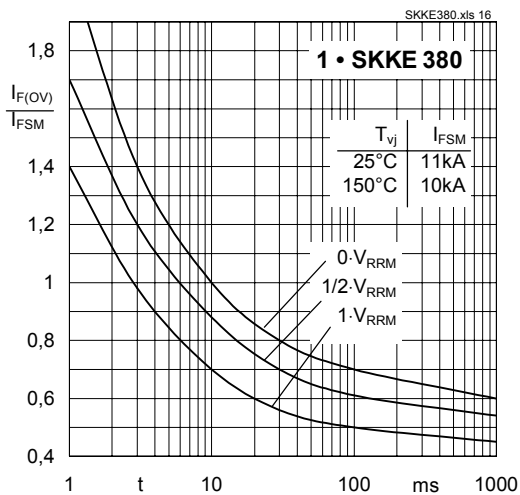
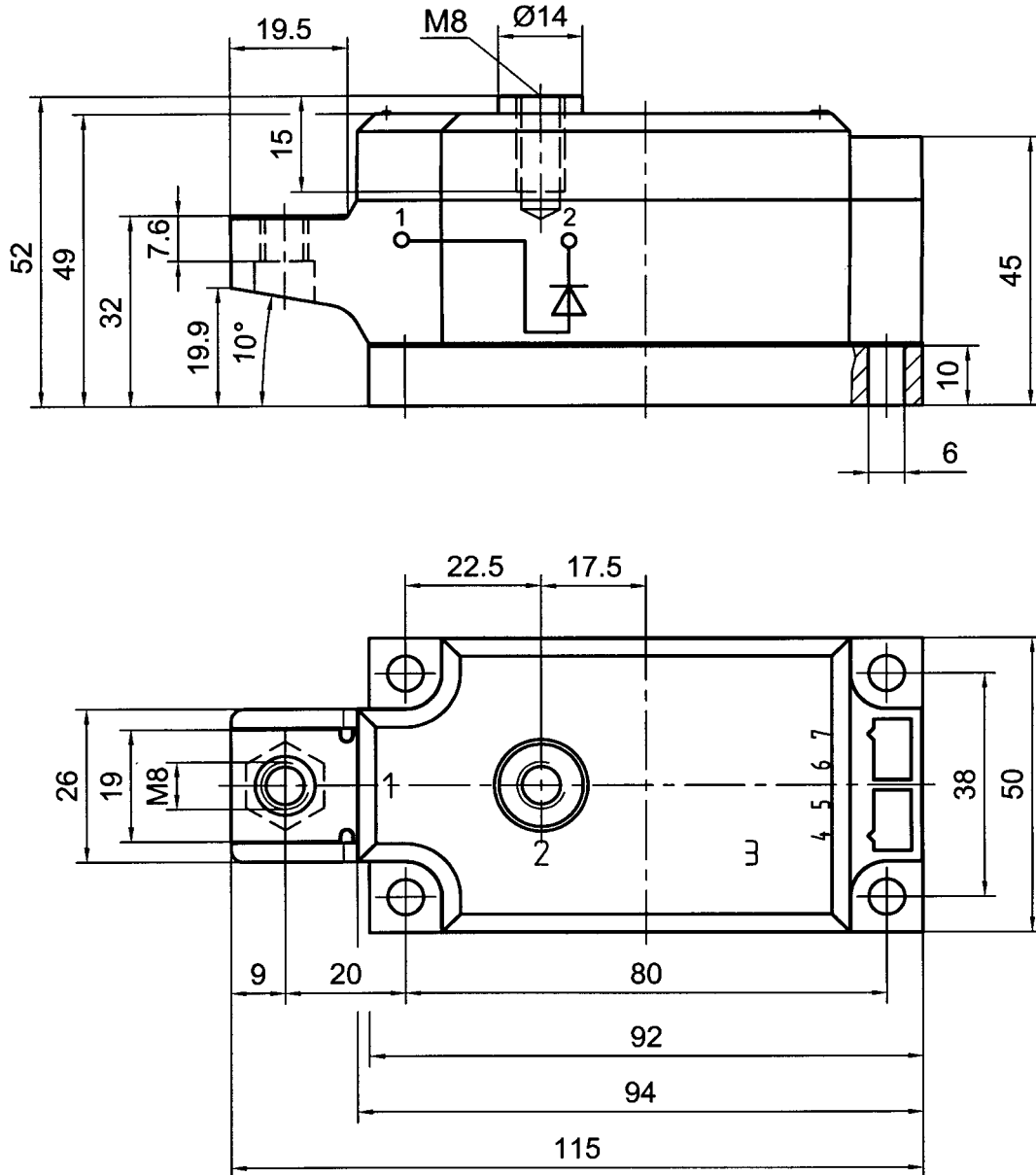


Fig. 16 Surge overload current vs. time

SKKE 380

Case A 77a
SEMIPACK® 3

UL recognized, file no. E 63 532



Dimensions in mm

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