SKKE 380

SEMIPACK® 3 [1)]

Rectifier Diode Modules

SKKE 380

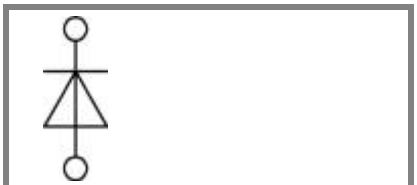
Features

- 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

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

1) Discontinued version, redesigned version already available
2) See the assembly instruction
3) The screws must be lubricated



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

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; T_c = 100 °C	380	A
I_{FSM}	T_{vj} = 25 °C; 10 ms	11000	A
	T_{vj} = 150 °C; 10 ms	10000	A
i^2t	T_{vj} = 25 °C; 8,3 ... 10 ms	605000	A²s
	T_{vj} = 150 °C; 8,3 ... 10 ms	500000	A²s
V_F	T_{vj} = 25 °C; I_F = 1000 A	max. 1,25	V
$V_{(TO)}$	T_{vj} = 150 °C	max. 0,8	V
r_T	T_{vj} = 150 °C	max. 0,35	mΩ
I_{RD}	T_{vj} = 150 °C; V_{RD} = V_{RRM}	max. 15	mA
$R_{th(j-c)}$	cont.; per diode = per module	0,11	K/W
	sin. 180; per diode = per module	0,116	K/W
$R_{th(c-s)}$	per diode = per module	0,04	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~
M_s	to heatsink	5 ± 15 %[2)]	Nm
M_t	to terminals	9 ± 15 %[3)]	Nm
a		5 * 9,81	m/s²
m	approx.	620	g
Case		A 77a	

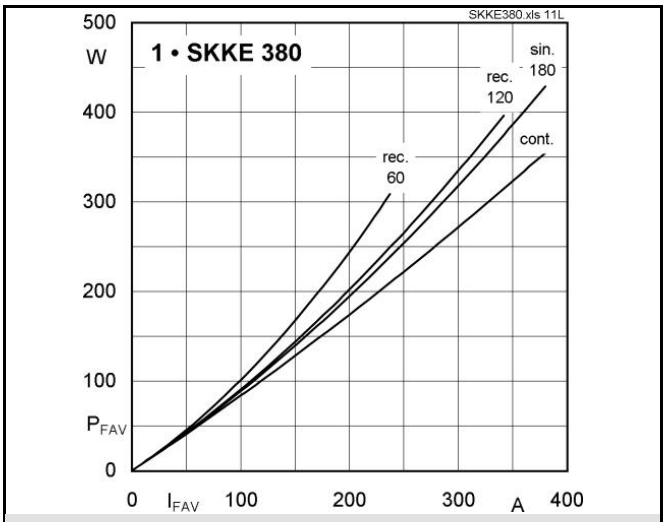


Fig. 11L Power dissipation per diode vs. forward current

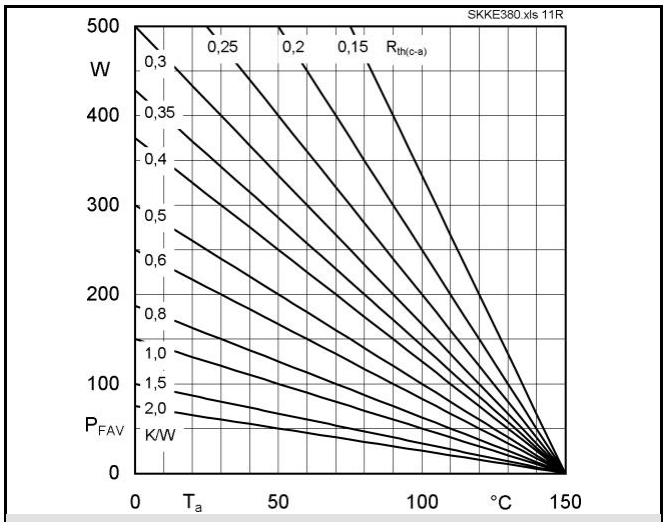


Fig. 11R Power dissipation per diode vs. ambient temperature

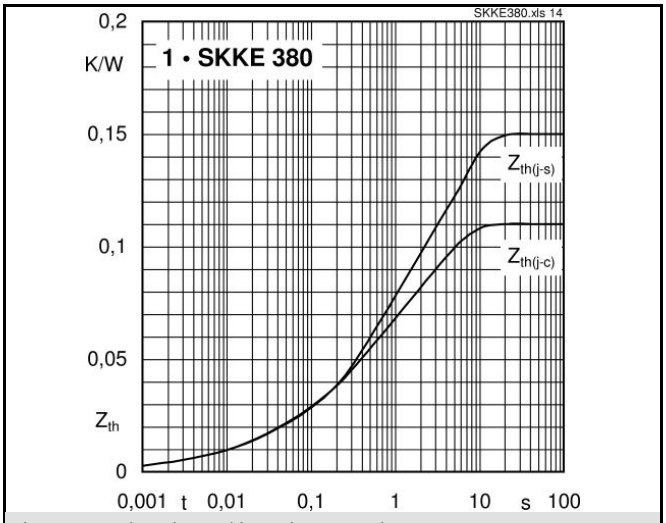


Fig. 14 Transient thermal impedance vs. time

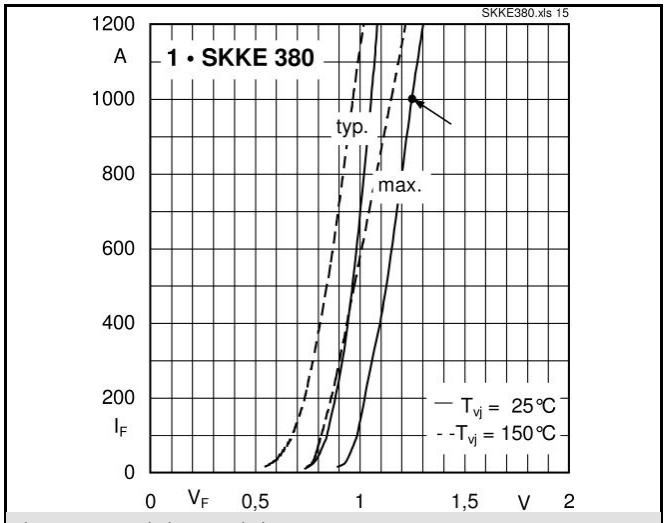


Fig. 15 Forward characteristics

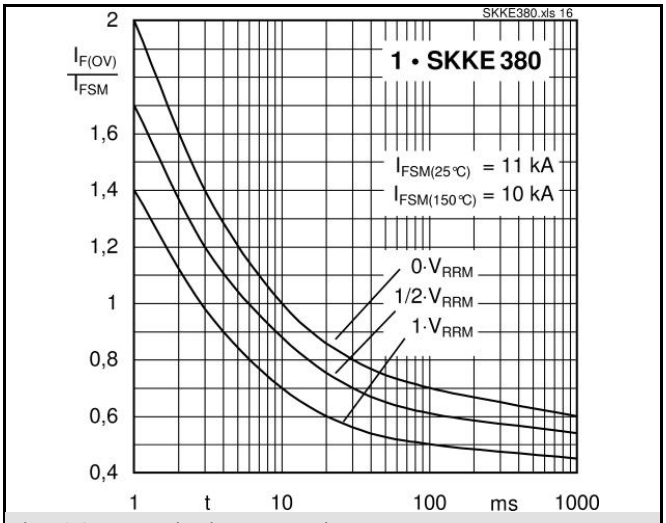
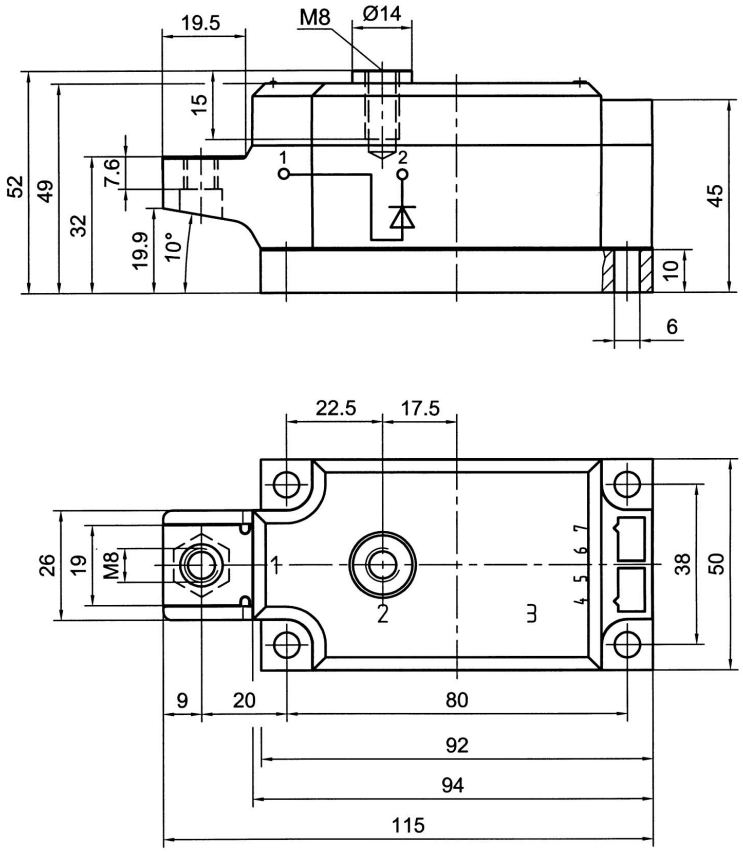


Fig. 16 Surge overload current vs. time

Dimensions in mm



Case A 77a

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