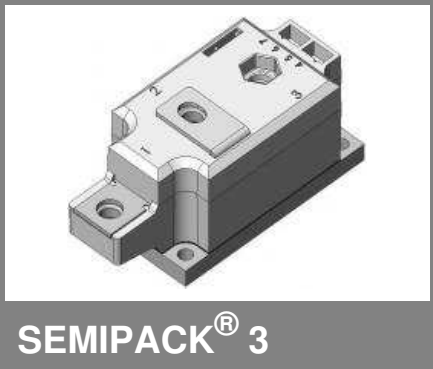




Rectifier Diode Modules

SKKE 380

Features

- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precise metal pressure contacts for high reliability
- UL recognized, file no. E 63 53

Typical Applications*

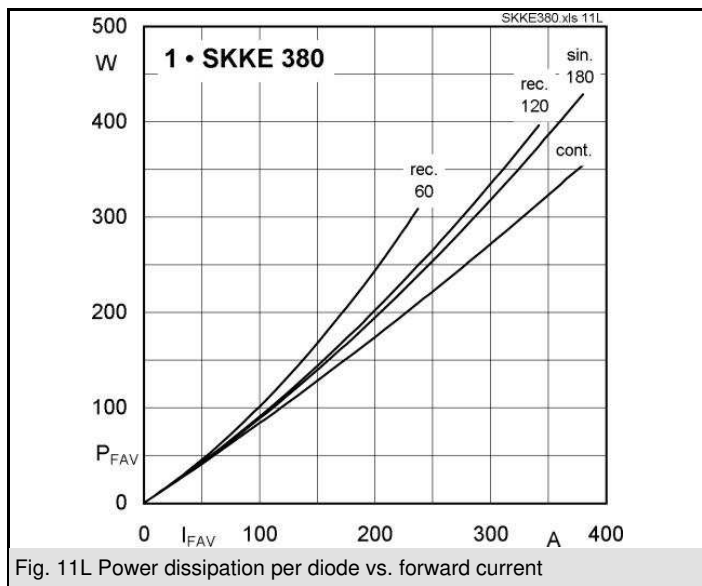
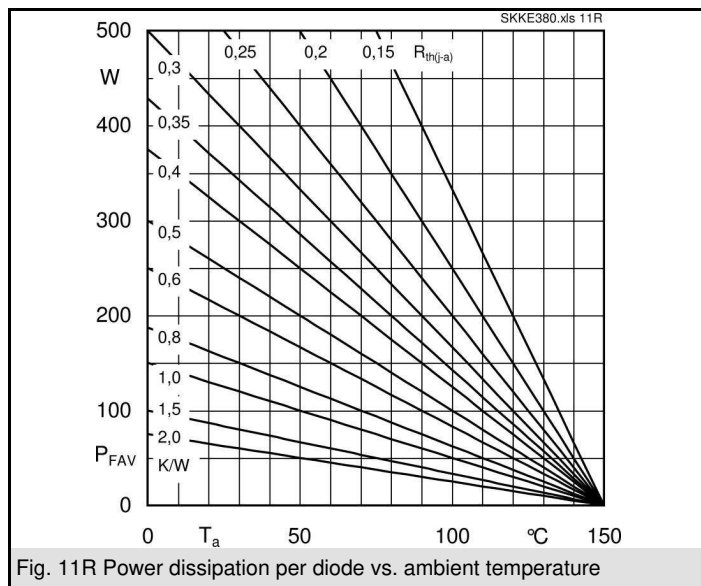
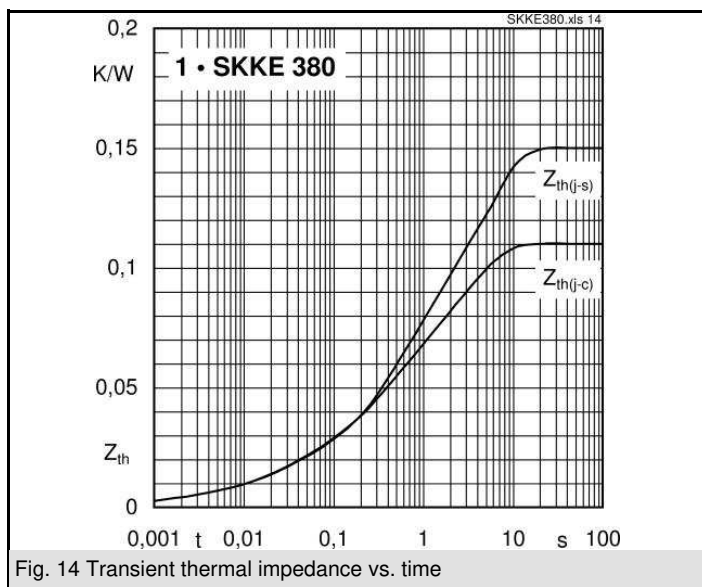
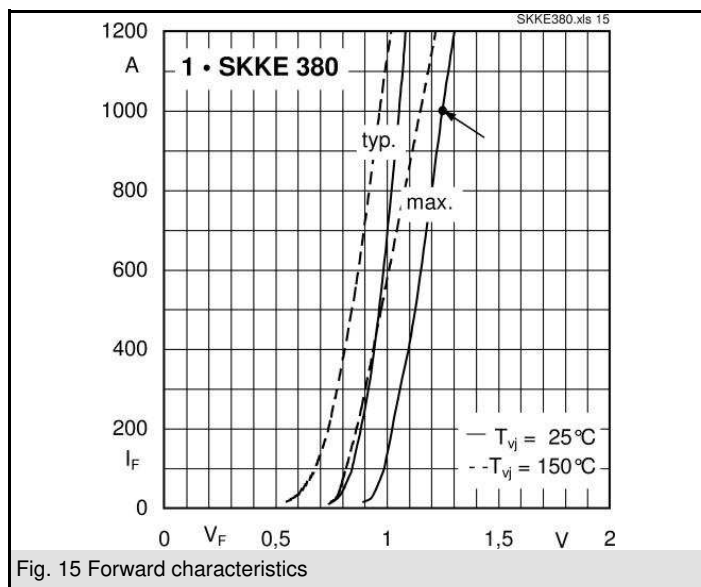
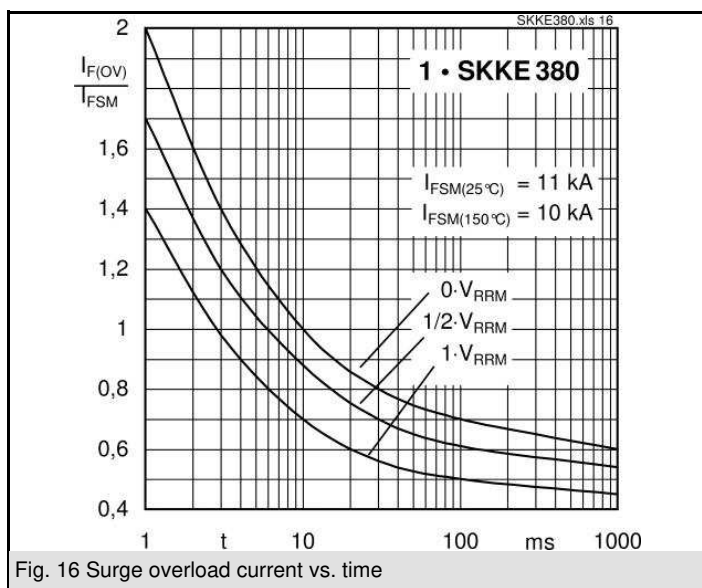
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

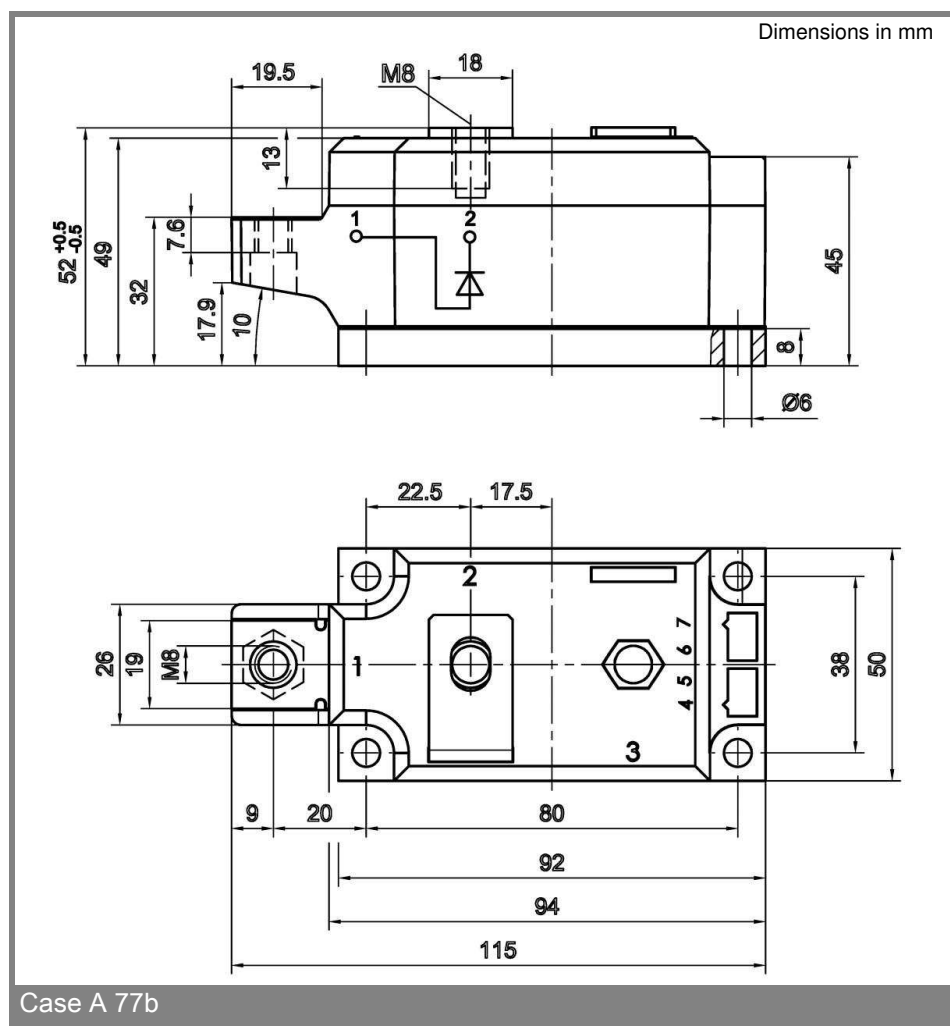
1) The screws must be lubricated

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

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 100\text{ °C}$	380	A
I_{FSM}	$T_{vj} = 25\text{ °C}$; 10 ms	11000	A
	$T_{vj} = 150\text{ °C}$; 10 ms	10000	A
i^2t	$T_{vj} = 25\text{ °C}$; 8,3 ... 10 ms	605000	A²s
	$T_{vj} = 150\text{ °C}$; 8,3 ... 10 ms	500000	A²s
V_F	$T_{vj} = 25\text{ °C}$; $I_F = 1000\text{ A}$	max. 1,25	V
$V_{(TO)}$	$T_{vj} = 150\text{ °C}$	max. 0,8	V
r_T	$T_{vj} = 150\text{ °C}$	max. 0,35	mΩ
I_{RD}	$T_{vj} = 150\text{ °C}$; $V_{RD} = V_{RRM}$	max. 10	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 %	Nm
M_t	to terminals	9 ± 15 % ¹⁾	Nm
a		5 * 9,81	m/s²
m	approx.	550	g
Case		A 77b	







* 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 personal.