

High Voltage Rectifiers 35...180 kV

SKXA ...



V_{RRM} V	$V_{(BR)}$ V	V_{RWM} V	Types	V_F $I_F = 30\text{ A}$ V	N	R_{thjoil} °C/W
35 000	52 000	30 000	SKXA 35 N	120	32	12,5
80 000	100 000	75 000	SKXA 75 000	160	54	2,6
80 000	100 000	75 000	SKXA 75 M	210	61	2,3
105 000	130 000	100 000	SKXA 100 M	225	74	2,2
160 000	200 000	150 000	SKXA 150 M	340	108	1,4
180 000	220 000	170 000	SKXA 180 M	340	108	1,4

Symbol	Conditions	SKXA 35 N	SKXA ...
I_{FAV}	$T_{oil} = 75\text{ °C}$	0,15 A	0,35 A
I_{FN}	$T_{amb} = 45\text{ °C}$	0,1 A	0,28 A
$I_{F(OV)}$	$t_p = 1\text{ s}$ $t_p = 100\text{ ms}$	1 A 2,5 A	2,6 A 7,5 A
I_{FSM}	$T_{vj} = 25\text{ °C}; 10\text{ ms}$ $T_{vj} = 125\text{ °C}; 10\text{ ms}$	35 A 30 A	100 A 90 A
i^2t	$T_{vj} = 25\text{ °C}; 8,3 \dots 10\text{ ms}$ $T_{vj} = 125\text{ °C}; 8,3 \dots 10\text{ ms}$	$6\text{ A}^2\text{ s}$ $4,5\text{ A}^2\text{ s}$	$50\text{ A}^2\text{ s}$ $40\text{ A}^2\text{ s}$
I_R	$T_{vj} = 25\text{ °C}; V_R = V_{RRM}$	$1,5\text{ }\mu\text{A}$	$1,5\text{ }\mu\text{A}$
T_{vj} T_{stg}		- 40...+125 °C - 40...+125 °C	
Case		F4	F3

Features

- Hermetically sealed in ceramic tube
- Used in oil
- Clip-on contacts
- Avalanche characteristics

Typical Applications

- X-Ray equipment
- Electrostatic precipitators
- Electronic beam welding
- Lasers
- Cable test Equipment

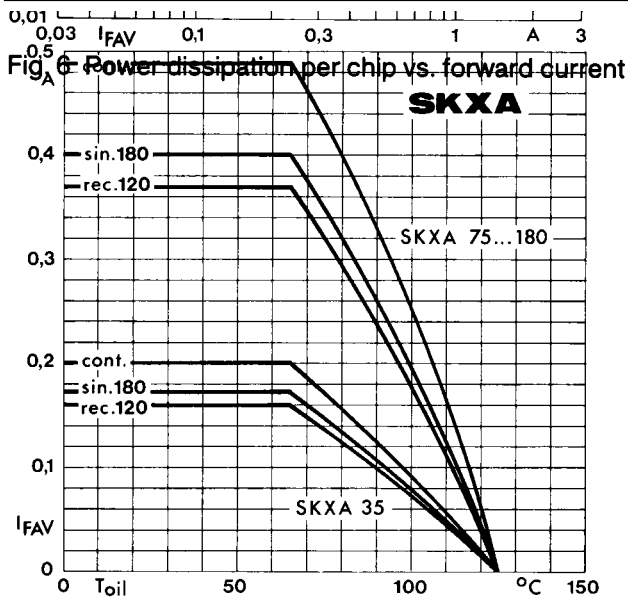


Fig. 3 Rated forward current vs. oil temperature

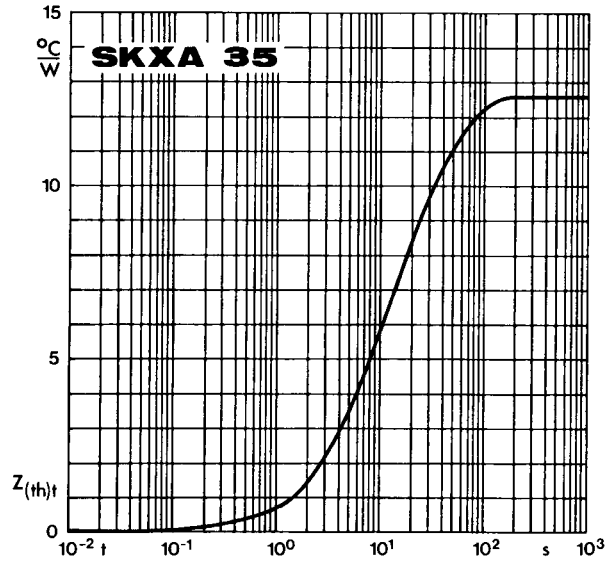


Fig. 4 a Transient thermal impedance vs. time

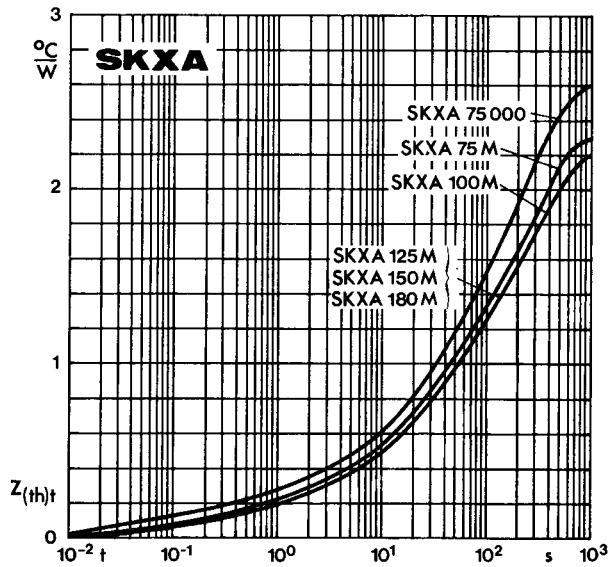


Fig. 4 b Transient thermal impedance vs. time

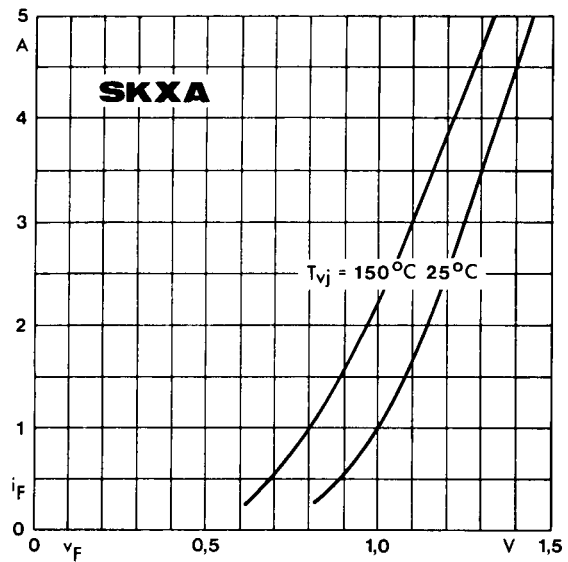
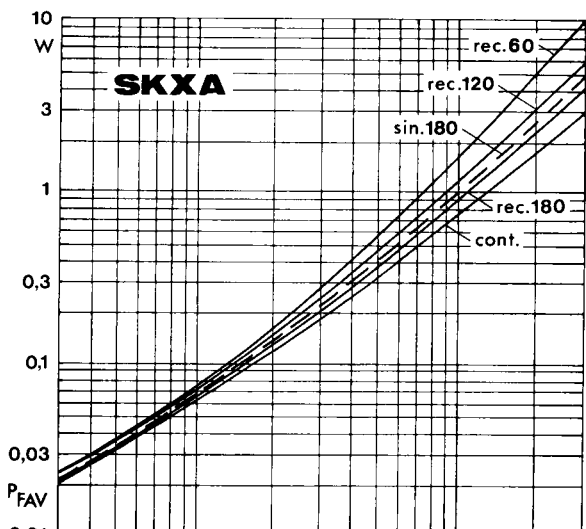


Fig. 5 Forward characteristic of a single chip



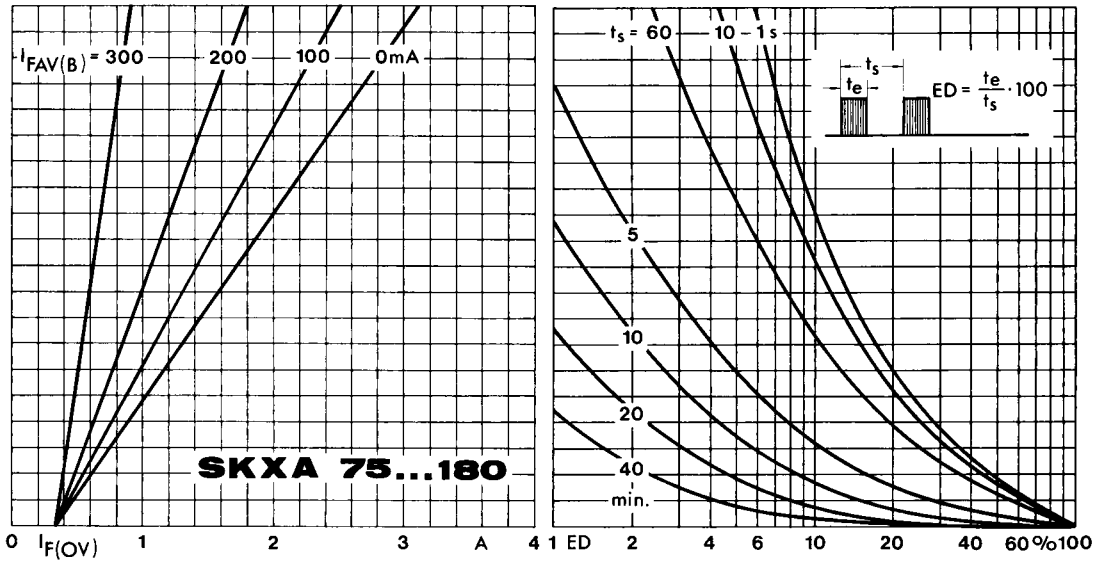


Fig. 7 Rated overload current vs. duty cycle

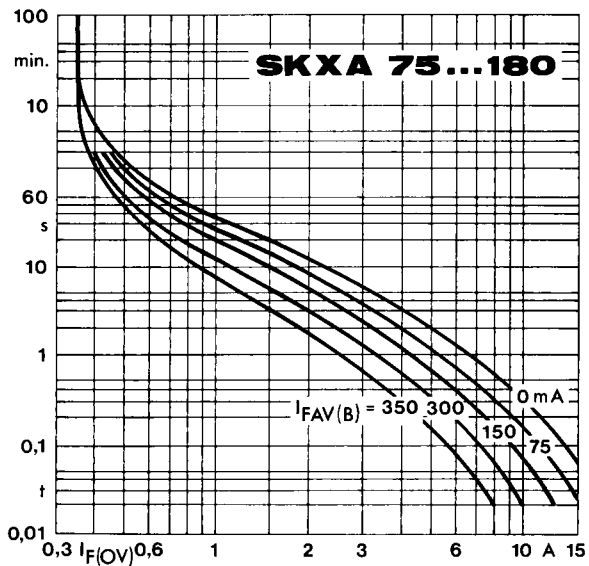
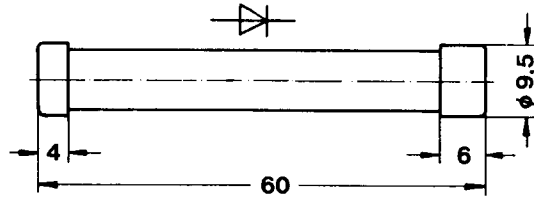


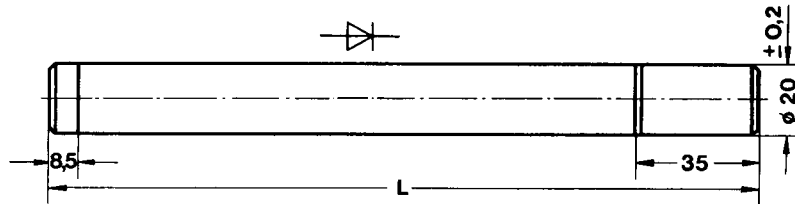
Fig. 8 Rated overload current vs. time

SKXA 35 N
 Case F 4
 w=14 g



Dimensions in mm

SKXA
 Case F 3



Type	L_{-2}^{+1} mm	w g
SKXA 75000	124	105
SKXA 75 M	142	118
SKXA 100 M	170	143
SKXA 150 M	230	192
SKXA 180 M	230	192

Dimensions in mm