



SEMIPACK® 6

Rectifier Diode Modules

SKKE 1201/22

Features

- Precise metal pressure contacts for high reliability
- UL recognized, file no. E 63 532

Typical Applications*

- Rectifiers

Absolute Maximum Ratings				
Symbol	Conditions		Values	Unit
Recitifier Diode				
I _{FAV}	sin. 180°	T _c = 85 °C	1360	A
		T _c = 100 °C	1100	A
I _{FRMS}	continuous operation		1700	A
I _{FSM}	10 ms	T _j = 25 °C	41000	A
		T _j = 150 °C	35000	A
i ² t	10 ms	T _j = 25 °C	8405000	A ² s
		T _j = 150 °C	6125000	A ² s
V _{RSM}			2300	V
V _{RRM}			2200	V
T _j			-40 ... 150	°C
Module				
T _{stg}			-40 ... 150	°C
V _{isol}	a.c.; 50 Hz; r.m.s.	1 min	3000	V
		1 s	3600	V

Characteristics						
Symbol	Conditions		min.	typ.	max.	Unit
Diode						
V _F	T _j = 150 °C, I _F = 3000 A				1.11	V
V _(TO)	T _j = 150 °C				0.75	V
r _T	T _j = 150 °C				0.073	mΩ
I _{RD}	T _j = 150 °C, V _{RD} = V _{RRM}				150	mA
R _{th(j-c)}	cont.	per chip			0.0466	K/W
		per module			0.0466	K/W
R _{th(j-c)}	sin. 180°	per chip			0.048	K/W
		per module			0.048	K/W
Module						
R _{th(c-s)}	chip				0.015	K/W
	module				0.015	K/W
M _s	to heatsink M6		5.1		6.9	Nm
M _t	to terminal M12		16.2		19.8	Nm
a					5 * 9,81	m/s ²
w				1950		g



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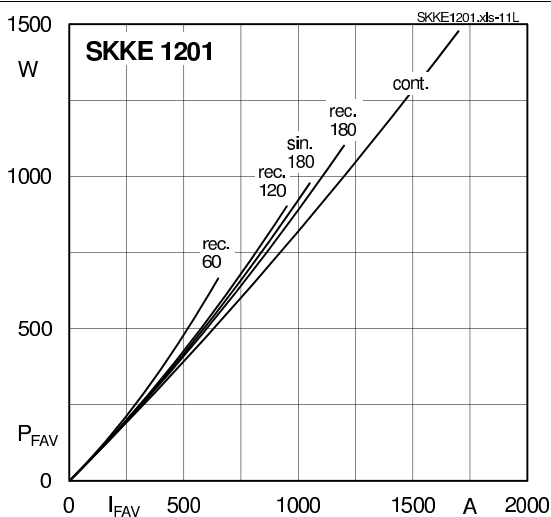


Fig. 11L: Power dissipation per diode vs. forward current

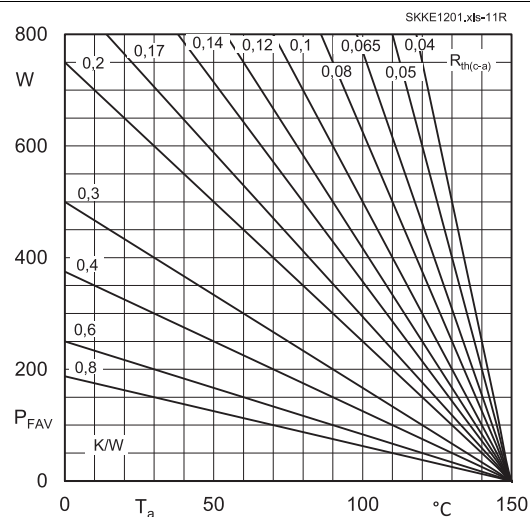


Fig. 11R: Power dissipation per diode vs. ambient temperature

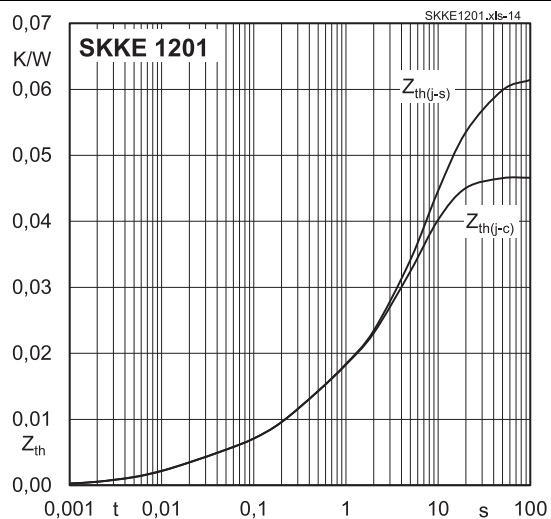


Fig. 14: Transient thermal impedance vs. time

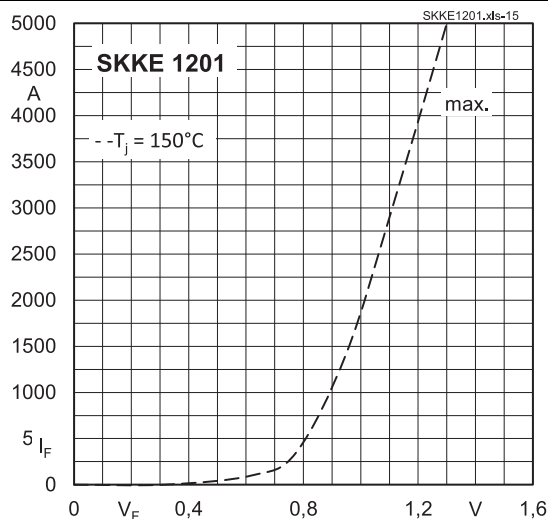


Fig. 15: Forward characteristics

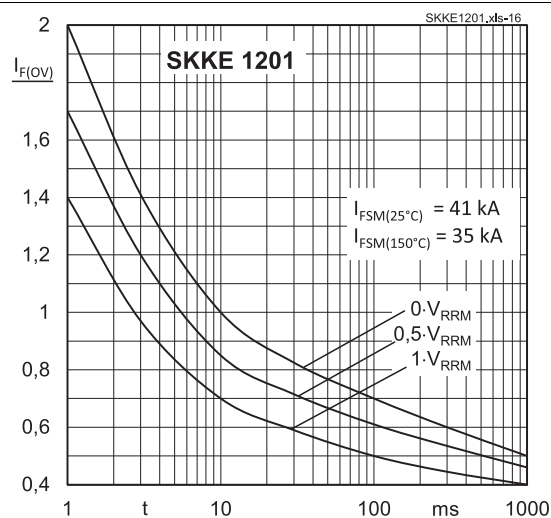
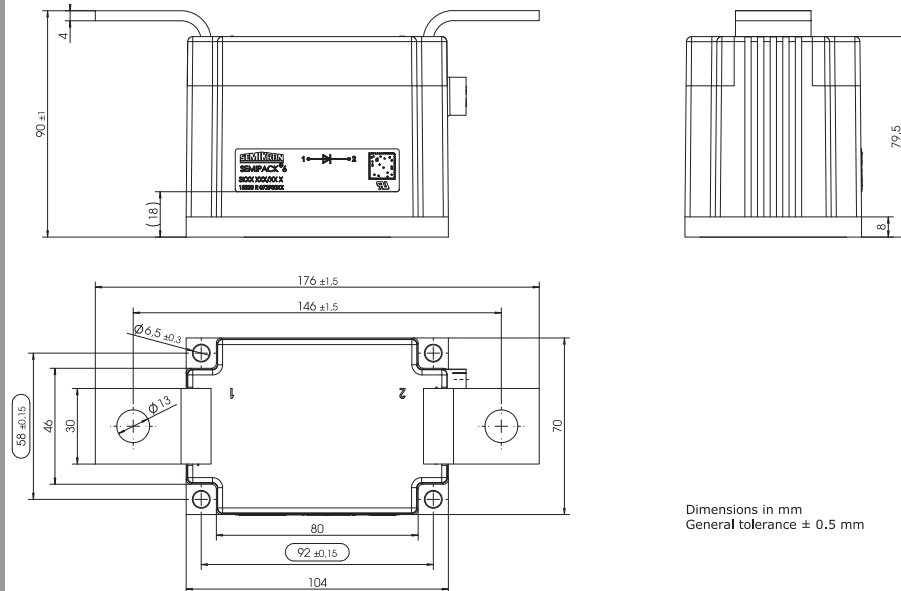


Fig. 16: Surge overload current vs. time



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Dimensions in mm
General tolerance ± 0.5 mm

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This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, chapter IX.

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