SKKE 1201/22



SEMIPACK® 6

Rectifier Diode Modules

SKKE 1201/22

Features

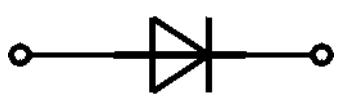
- Precisious metal pressure contacts for high reliability
- UL recognized, file no. E 63 532

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^2t	10 ms	T_j = 25 °C	8405000	A^2s
		T_j = 150 °C	6125000	A^2s
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



SKKE

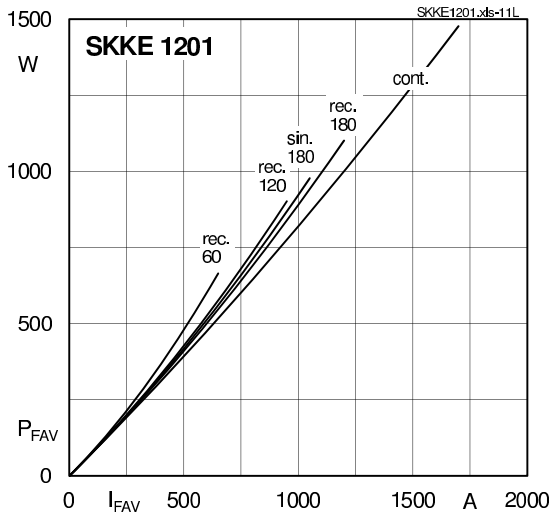


Fig. 11L: Power dissipation per diode vs. forward current

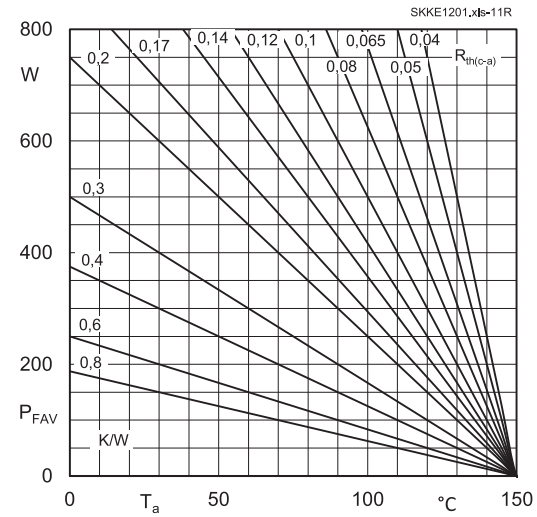


Fig. 11R: Power dissipation per diode vs. ambient temperature

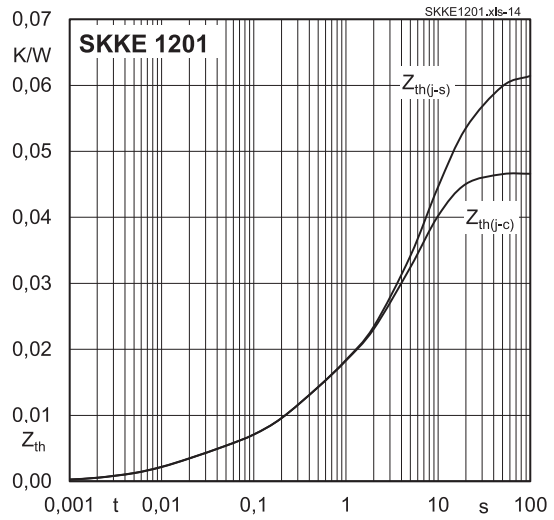


Fig. 14: Transient thermal impedance vs. time

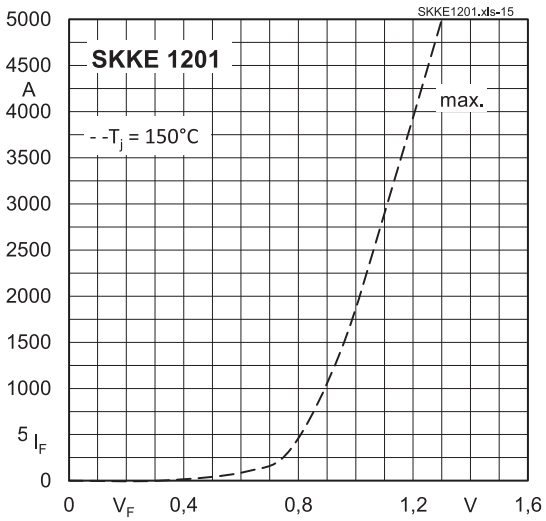


Fig. 15: Forward characteristics

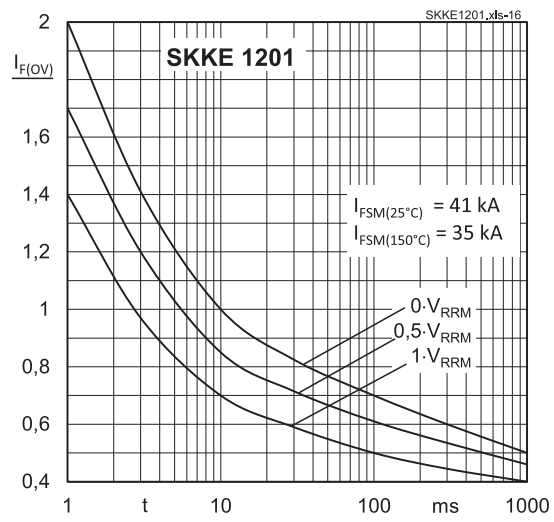
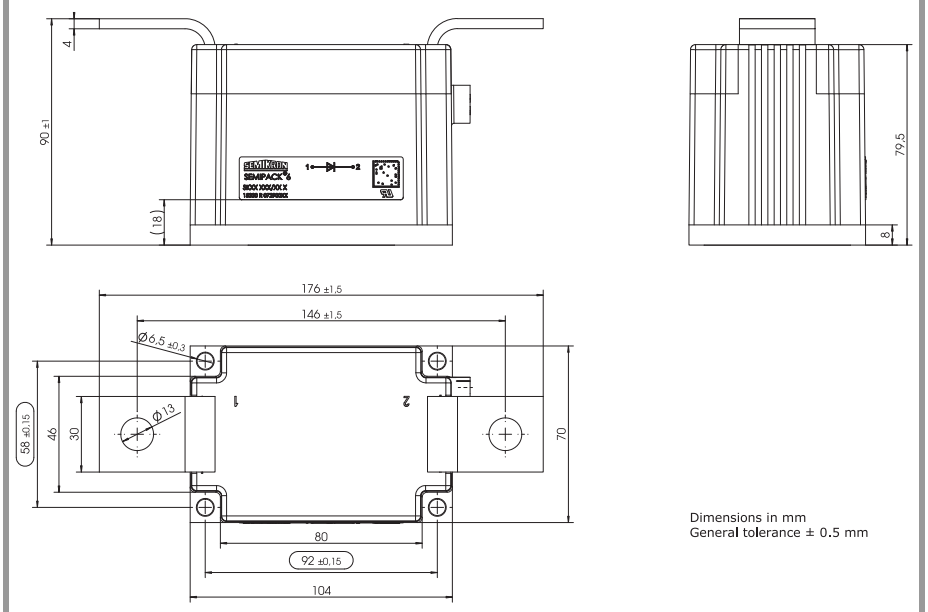


Fig. 16: Surge overload current vs. time



SEMIPACK 6



SKKE

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

***IMPORTANT INFORMATION AND WARNINGS**

The specifications of SEMIKRON products may not be considered as guarantee or assurance of product characteristics ("Beschaffenheitsgarantie"). The specifications of SEMIKRON products describe only the usual characteristics of products to be expected in typical applications, which may still vary depending on the specific application. Therefore, products must be tested for the respective application in advance. Application adjustments may be necessary. The user of SEMIKRON products is responsible for the safety of their applications embedding SEMIKRON products and must take adequate safety measures to prevent the applications from causing a physical injury, fire or other problem if any of SEMIKRON products become faulty. The user is responsible to make sure that the application design is compliant with all applicable laws, regulations, norms and standards. Except as otherwise explicitly approved by SEMIKRON in a written document signed by authorized representatives of SEMIKRON, SEMIKRON products may not be used in any applications where a failure of the product or any consequences of the use thereof can reasonably be expected to result in personal injury. No representation or warranty is given and no liability is assumed with respect to the accuracy, completeness and/or use of any information herein, including without limitation, warranties of non-infringement of intellectual property rights of any third party. SEMIKRON does not assume any liability arising out of the applications or use of any product; neither does it convey any license under its patent rights, copyrights, trade secrets or other intellectual property rights, nor the rights of others. SEMIKRON makes no representation or warranty of non-infringement or alleged non-infringement of intellectual property rights of any third party which may arise from applications. Due to technical requirements our products may contain dangerous substances. For information on the types in question please contact the nearest SEMIKRON sales office. This document supersedes and replaces all information previously supplied and may be superseded by updates. SEMIKRON reserves the right to make changes.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

SEMIKRON:

SKM 200 GB 125 D SKM400GB126D SKM50GD125D SKA 1/17 SKB 25/08 SKD 25/12 SKKE 162/16 SKKE 380/16 SKKT 106/16E SKKT 106/18E SKD30/16 A1 SKKH 58/16 E SKKT 57B16 E SKM150GB12T4 SKA 3/17 SKKE380/12 SKM200GAR12E4 DBI 6-04 P SK60GB125 SKM 100 GB 125 DN SKT 24/12 E SKR 71/16 SKKH 106/16 E SKKT 106B16 E SKM50GB12T4 SKR 26/12 SKKH 72/16 E SKKT 42/12E SKR 320/16 SKKT 132/16 E