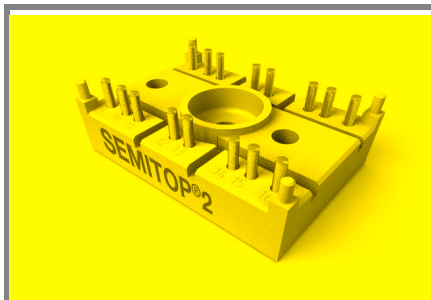




SEMITOP® 2

Bridge Rectifier

SK 95 D

Preliminary Data

Features

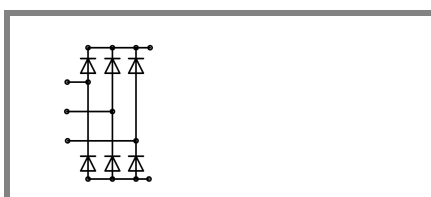
- Compact design
- One screw mounting
- Heat transfer and insulation through direct copper bonded aluminium oxide ceramic (DCB)
- Up to 1600V reverse voltage
- High surge currents
- Glass passivated diodes chips
- UL recognized, file no. E 63 532

Typical Applications*

- Input rectifier for power supplies
- Rectifier

V_{RSM} V	V_{RRM}, V_{DRM} V	$I_D = 95$ A (full conduction) ($T_s = 80$ °C)
800	800	SK 95 D 08
1200	1200	SK 95 D 12
1600	1600	SK 95 D 16

Symbol	Conditions	Values	Units
I_D	$T_s = 80$ °C	95	A
I_{FSM}	$T_{vj} = 25$ °C; 10 ms $T_{vj} = 150$ °C; 10 ms	700 560	A A
i^2t	$T_{vj} = 25$ °C; 8,3...10 ms $T_{vj} = 150$ °C; 8,3...10 ms	2450 1370	A²s A²s
V_F	$T_{vj} = 25$ °C; $I_F = 35$ A	max. 1,2	V
$V_{(TO)}$	$T_{vj} = 150$ °C	max. 0,8	V
r_T	$T_{vj} = 150$ °C	max. 11	mΩ
I_{RD}	$T_{vj} = 150$ °C; $V_{DD} = V_{DRM}$; $V_{RD} = V_{RRM}$	max. 4	mA mA
$R_{th(f-s)}$	per diode per module	1,2 0,2	K/W K/W
T_{solder}	terminals, 10s	260	°C
T_{vj}		-40...+150	°C
T_{stg}		-40...+125	°C
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min. mounting torque to heatsink	3000 (2500) 2	V Nm
M_s			
M_t			
m	approx. weight	19	g
Case	SEMITOP® 2	T 7	



D

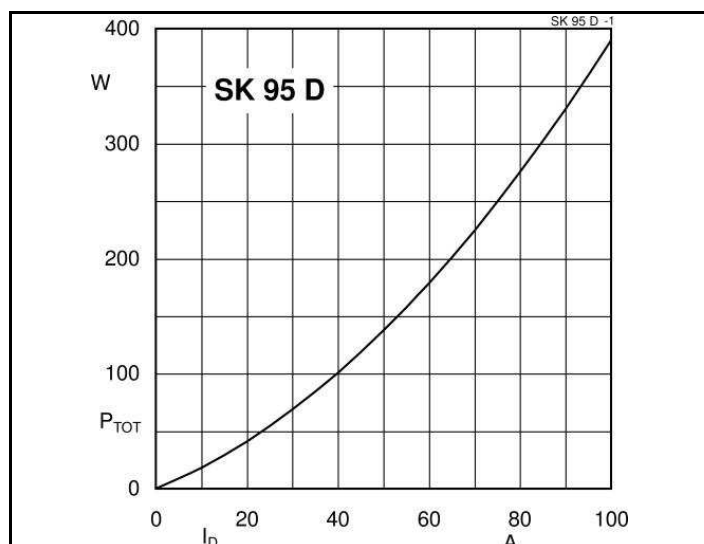


Fig. 1 Power dissipation vs. Output current

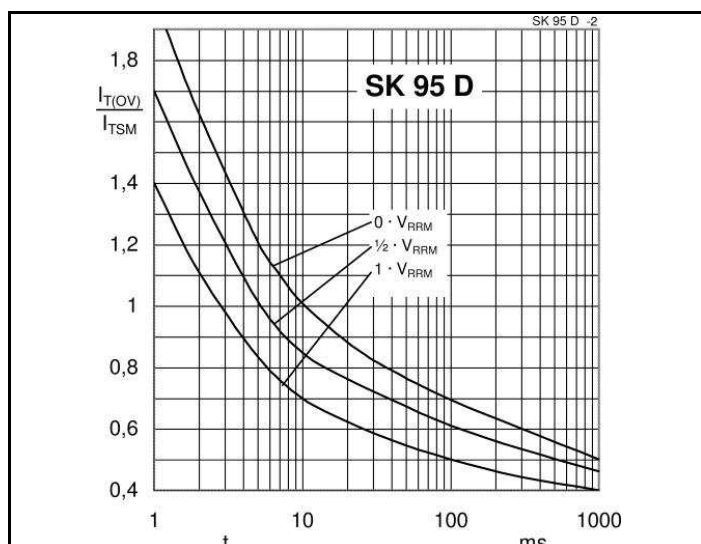


Fig. 2 Surge overload current vs. time

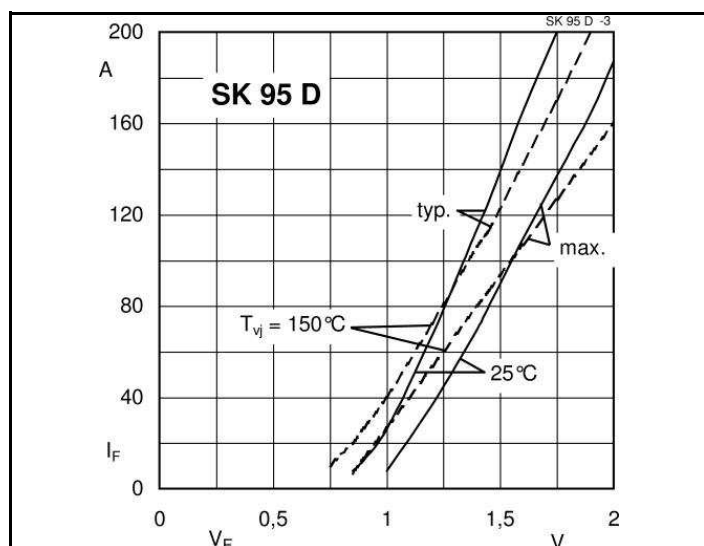


Fig. 3 Forward characteristics of single diode

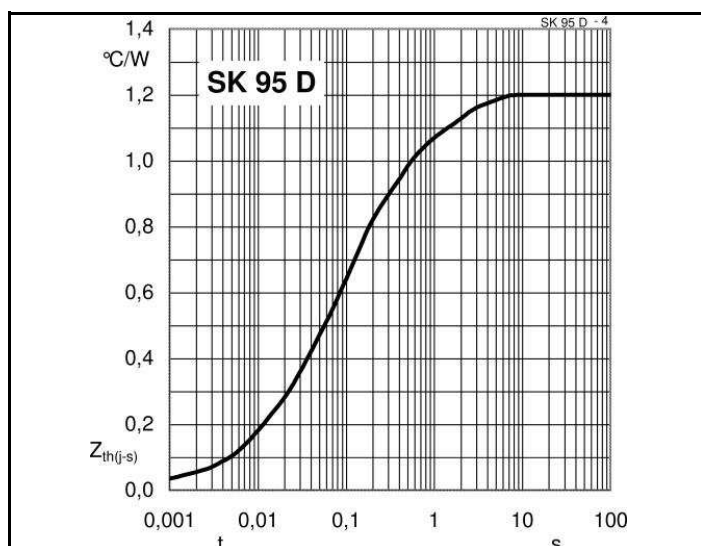
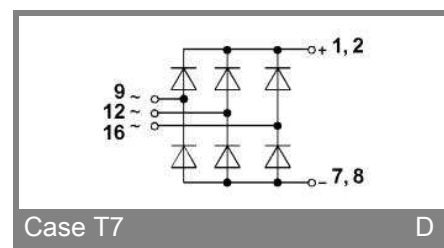
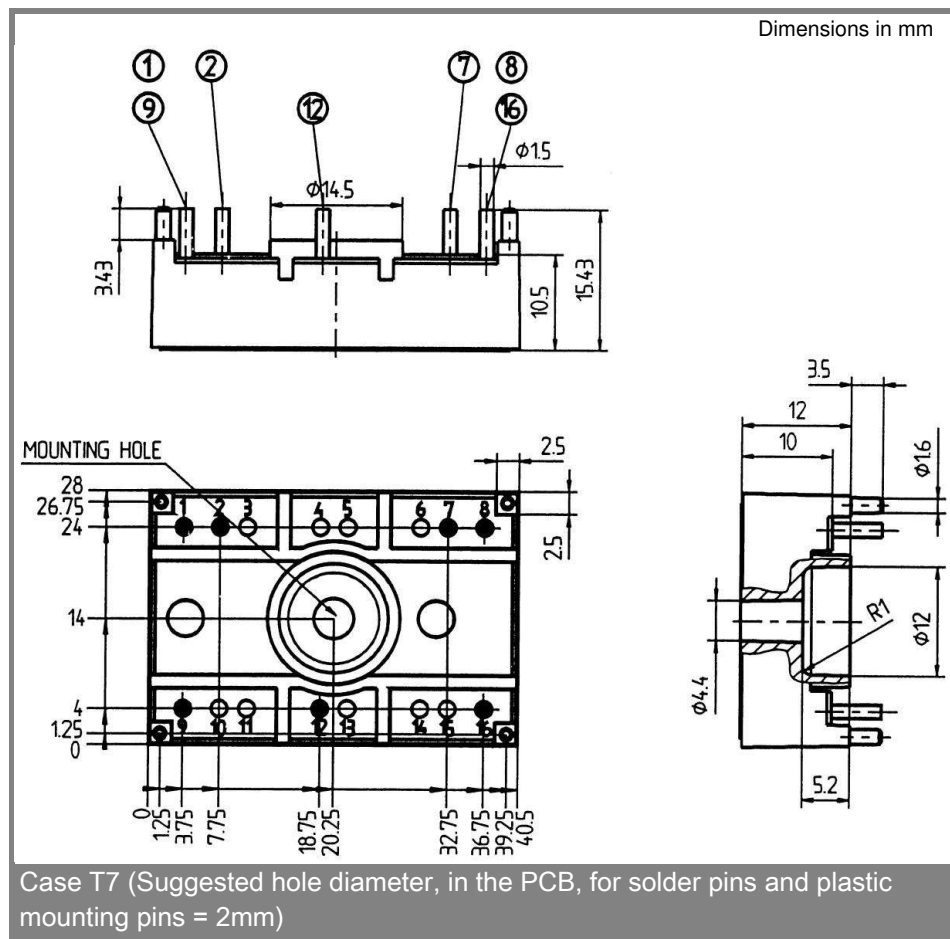


Fig. 4 Thermal transient impedance vs. time



* 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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bridge Rectifiers](#) category:

Click to view products by [Semikron](#) manufacturer:

Other Similar products are found below :

[MB2510](#) [MB252](#) [MB356G](#) [MB358G](#) [MP358-BP](#) [GBU10B-BP](#) [GBU15K-BP](#) [GBU4A-BP](#) [DB101-BP](#) [DBA100G](#) [DBA150G](#) [DBA250G](#)
[DBA40G](#) [DBA500G](#) [DBD10G-TM-E](#) [RS405GL-BP](#) [GBU6M](#) [TB102M](#) [MB1510](#) [TL401G](#) [TU602](#) [TU810](#) [MP5010W-BP](#) [DF1510S](#)
[MQSPA25](#) [TB354](#) [B1S-G](#) [ABS10-G](#) [GBJ1508-BP](#) [BR5010-G](#) [ABS6-G](#) [LBS10-13](#) [S3PDB60N18](#) [GBPC25-06W](#) [MD160S16M3](#) [BR1508](#)
[GBU6M-BP](#) [RS206](#) [SGBJ3508](#) [APT30DF20HJ](#) [KBPC5008WP](#) [D20XB80-7101](#) [D20XBS6-7101](#) [D15XB100-7000](#) [D15XB100-7101](#)
[D15XB60-7101](#) [D30XT80-7000](#) [DB207](#) [LN15XB60H-7101](#) [PSD 35T/18](#)