# SK 55 D



### SEMITOP 2

### Bridge Rectifier

#### SK 55 D

Target Data

#### Features

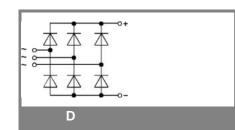
- Compact design
- One screw mounting
- Heat transfer and insulation through direct copper bonded aluminium oxide ceramic (DCB
- Up to 1600V reverse voltage
- High surge currents
- Glass passived diodes chips
- UL recognized, file no. E 63 532

### **Typical Applications**

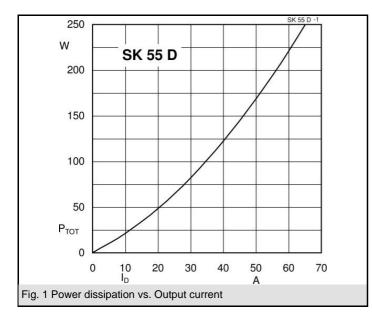
- Input rectifier for power supplies
- Rectifier

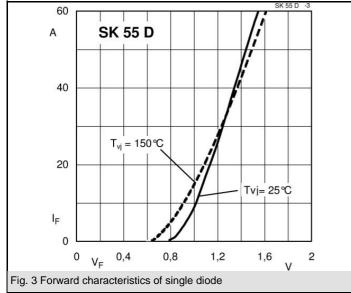
1	V <sub>RSM</sub> V	V <sub>RRM</sub> , V <sub>DRM</sub> V	I <sub>D</sub> = 55 A (full conduction) (T <sub>s</sub> = 80 °C)
L	800	800	SK 55 D 08
L	1200	1200	SK 55 D 12
	1600	1600	SK 55 D 16

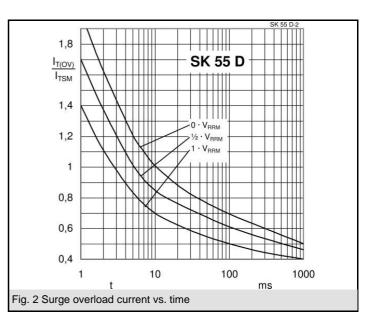
Symbol	Conditions	Values	Units
I <sub>D</sub>	T <sub>s</sub> = 80 °C	55	А
I <sub>D</sub>	T <sub>s</sub> = 100 °C	45	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	370	A
	T <sub>vi</sub> = 150 °C; 10 ms	270	А
i²t	T <sub>vi</sub> = 25 °C; 8,310 ms	685	A²s
	T <sub>vj</sub> = 150 °C; 8,310 ms	365	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 25 A	max. 1,25	V
V <sub>(TO)</sub>	$T_{vi} = 150 \text{ °C}$	max. 0,8	V
r <sub>T</sub>	$T_{vi}^{,j} = 150 \ ^{\circ}C$	max. 13	mΩ
I <sub>RD</sub>	$T_{vj}^{0}$ = 150 °C; $V_{DD}$ = $V_{DRM}$ ; $V_{RD}$ = $V_{RRM}$	max. 4	mA
			mA
R <sub>th(j-s)</sub>	per diode	2,15	K/W
	per module	0,36	K/W
-		200	°C
T <sub>solder</sub>	terminals, 10s	260 -40+150	°C
T <sub>vj</sub>			
T <sub>stg</sub>		-40+125	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3000 ( 2500 )	V
M <sub>s</sub>	mounting torque to heatsink	2	Nm
M <sub>t</sub>			
m	approx. weight	19	g
Case	SEMITOP <sup>®</sup> 2	Τ7	



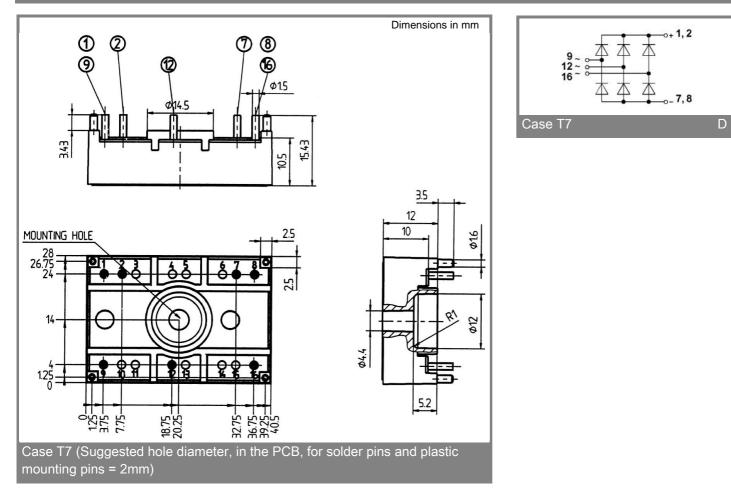
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