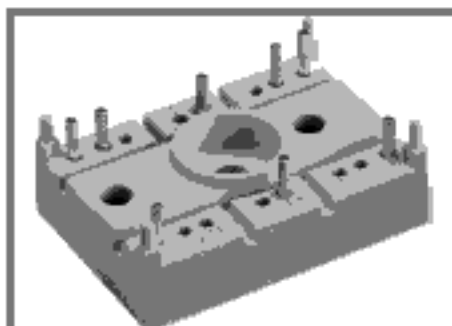


SK 70 D



SEMITOP® 2

Bridge Rectifier

SK 70 D

Preliminary Data

Features

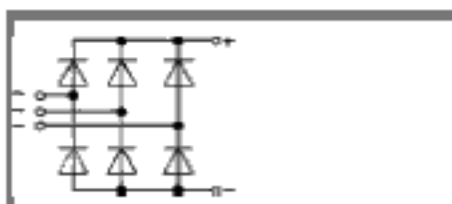
- Compact design
- One screw mounting
- Heat transfer and insulation through direct copper bonded aluminium oxide ceramic (DCB)
- Up to 1600V reverse voltage
- High surge currents
- Glass passivated diodes chips
- UL recognized, file no. E 63 532

Typical Applications

- Input rectifier for power supplies
- Rectifier

V_{RSM} V	V_{RRM} V_{DRM} V	$I_D = 70$ A (full conduction) ($T_a = 80$ °C)
800	800	SK 70 D 08
1200	1200	SK 70 D 12
1600	1200	SK 70 D 16

Symbol	Conditions	Values	Units
I_D	$T_a = 80$ °C	70	A
I_{FSM}	$T_{vj} = 25$ °C; 10 ms	370	A
	$T_{vj} = 150$ °C; 10 ms	270	A
P_t	$T_{vj} = 25$ °C; 8,3...10 ms	686	A ² s
	$T_{vj} = 150$ °C; 8,3...10 ms	366	A ² s
V_F	$T_{vj} = 25$ °C; $I_F = 25$ A	max. 1,25	V
$V_{(TO)}$	$T_{vj} = 150$ °C	0,8	V
r_T	$T_{vj} = 150$ °C	13	mΩ
I_{RD}	$T_{vj} = 150$ °C; $V_{DD} = V_{DRM}$; $V_{RD} = V_{RRM}$	max. 4	mA mA
$R_{th(j-a)}$	per diode	1,7	K/W
	per module	0,28	K/W
T_{solder}	terminals, 10s	260	°C
T_{vj}		-40...+160	°C
T_{stg}		-40...+125	°C
V_{isol}	a. c. 60 Hz; r.m.s.; 1 s / 1 min.	3000 (2500)	V
M_s	mounting torque to heatsink	2	Nm
M_t			
a			m/s ²
m	approx. weight	19	g
Case	SEMITOP® 2	T 7	



D

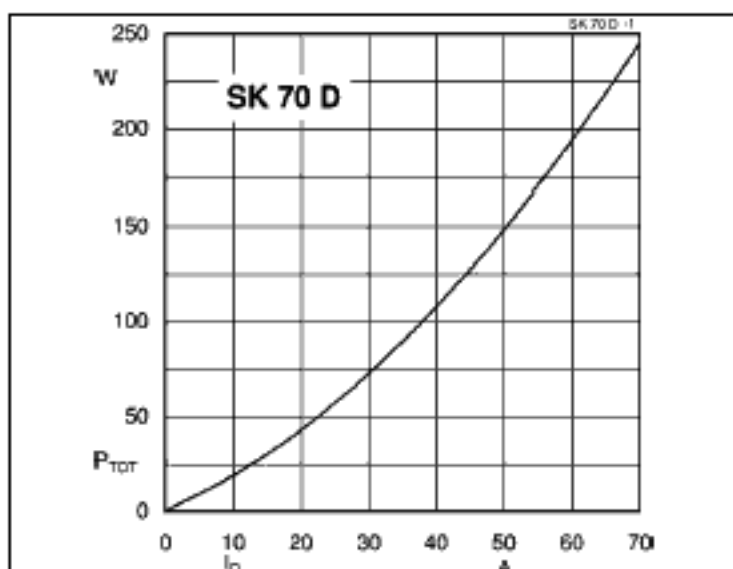


Fig. 1 Power dissipation vs. Output current

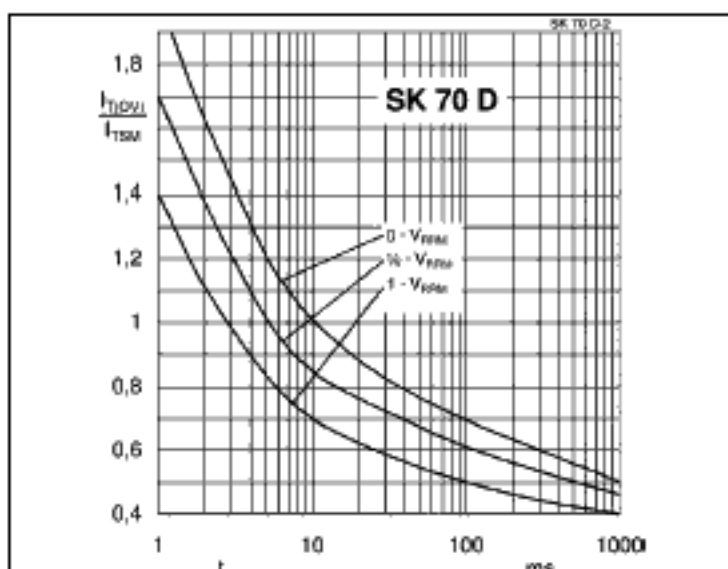


Fig. 2 Surge overload current vs. time

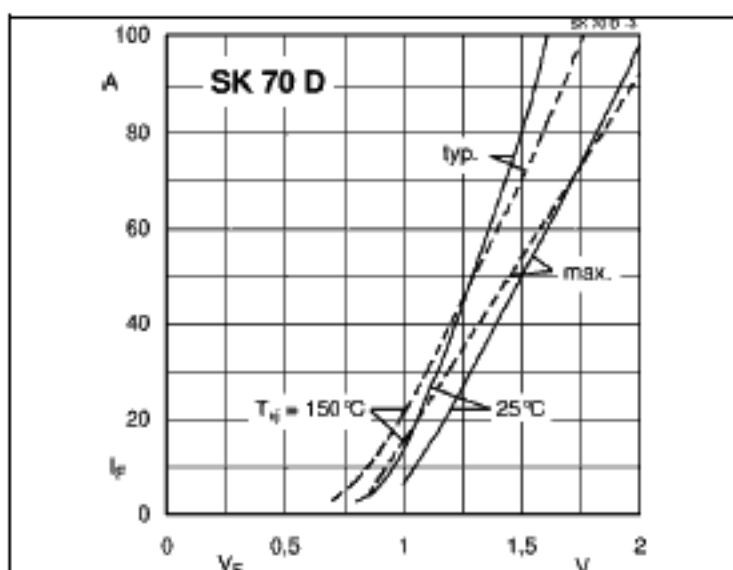


Fig. 3 Forward characteristics of single diode

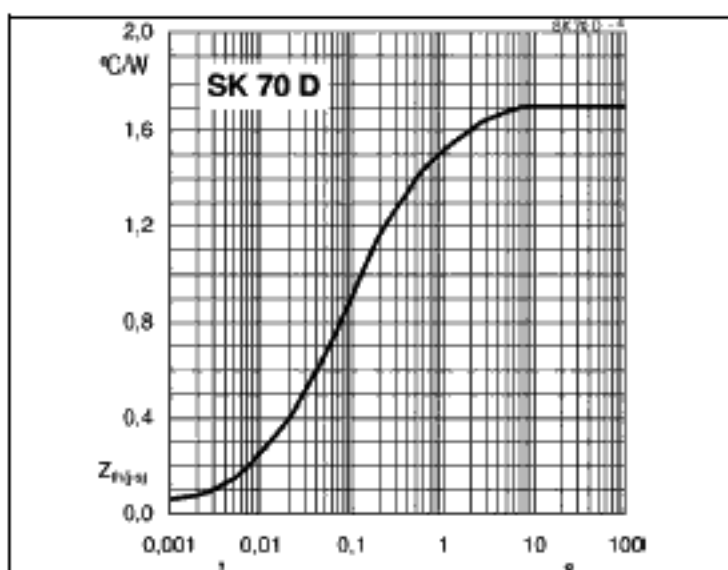
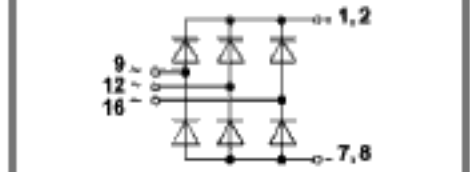
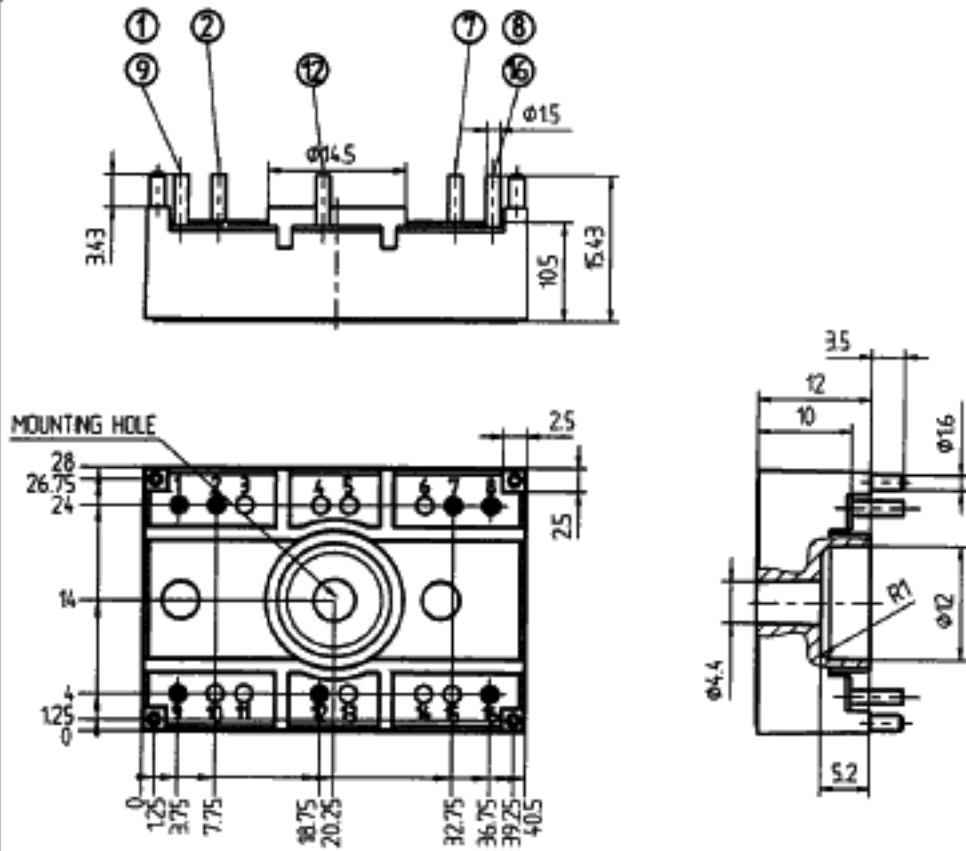


Fig. 4 Thermal transient impedance vs. time

Dimensions in mm



Case T7

D

Case T7 (Suggested hole diameter, in the PCB, for solder pins and plastic mounting pins = 2mm)

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