

SK 50 B, SK 70 B

SEMITOP® 2

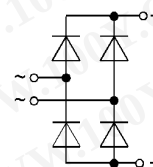
Bridge Rectifier

SK 50 B SK 70 B

V_{RSM} V_{RRM} V	I_D ($T_h = 80^\circ\text{C}$)	
	51 A	68 A
800	SK 50 B 08	SK 70 B 08
1200	SK 50 B 12	SK 70 B 12
1600	SK 50 B 16	SK 70 B 16

Preliminary Data

Symbol	Conditions	SK 50 B	SK 70 B	Units
I_D	$T_h = 80^\circ\text{C}$	30 ²⁾	30 ²⁾	A
I_{FSM}	$T_{vj} = 25^\circ\text{C}; 10\text{ ms}$	370	700	A
i^2t	$T_{vj} = 150^\circ\text{C}; 10\text{ ms}$	270	560	A
	$T_{vj} = 25^\circ\text{C}; 8,3...10\text{ ms}$	685	2450	A ² s
	$T_{vj} = 150^\circ\text{C}; 8,3...10\text{ ms}$	365	1370	A ² s
V_F	$T_{vj} = 25^\circ\text{C}; (I_T = \dots\text{ A}); \text{max.}$	1,25(25)	1,2(35)	V
$V_{(T0)}$	$T_{vj} = 150^\circ\text{C}$	0,8	0,8	V
r_T	$T_{vj} = 150^\circ\text{C}$	13	11	mΩ
I_{RD}	$T_{vj} = 25^\circ\text{C}; V_{RD} = V_{RRM}$	0,2	0,2	mA
	$T_{vj} = 150^\circ\text{C}; V_{RD} = V_{RRM}$	4	4	mA
R_{thjh} ¹⁾	per diode	1,7	1,2	K/W
	per module	0,43	0,3	K/W
T_{vj}		- 40 ... + 150		°C
T_{stg}		- 40 ... + 125		°C
T_{solder}	terminals, 10 s	260		°C
V_{isol}	a.c. 50 Hz; r.m.s. 1 s/1 min	3000 / 2500		V
M_1	mounting torque	2,0		Nm
		19		g
Case		T 6		



Features

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

Typical Applications

- Input rectifier for power supplies
- Rectifier

¹⁾ Thermal resistance junction to heatsink

²⁾ Current limited by number of pins

勝特力材料 886-3-5753170
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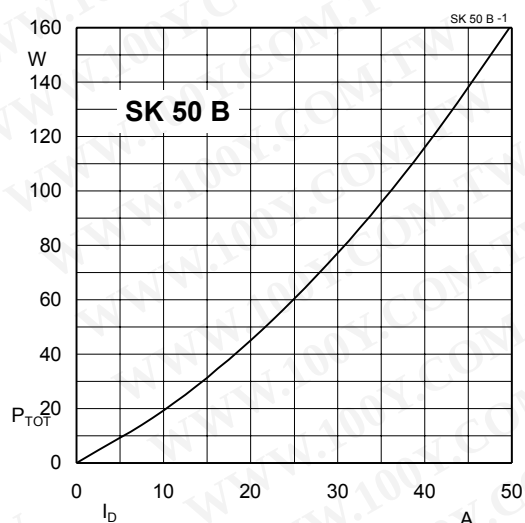


Fig. 1 Power dissipation vs. output current

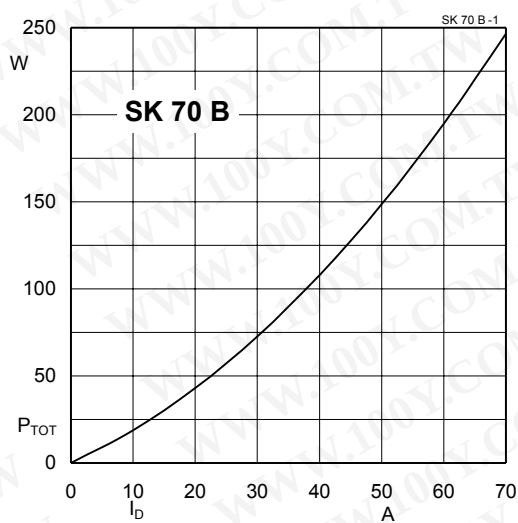


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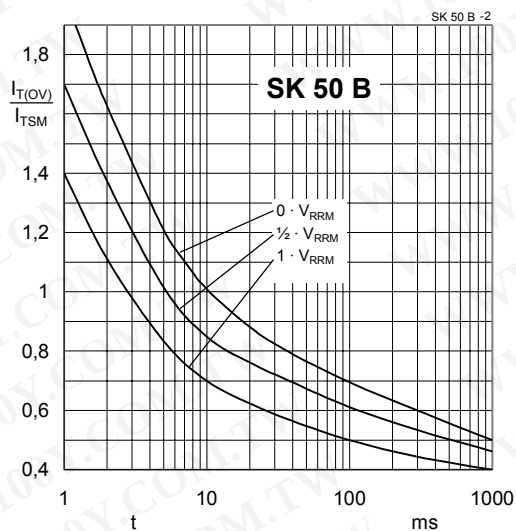


Fig. 2 Surge overload current vs. time

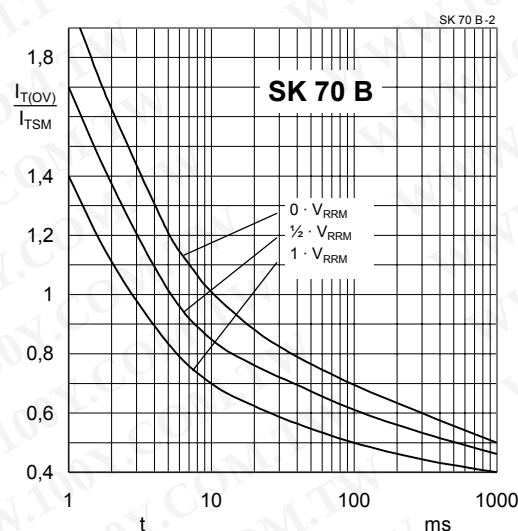


Fig. 2 Surge overload current vs. time

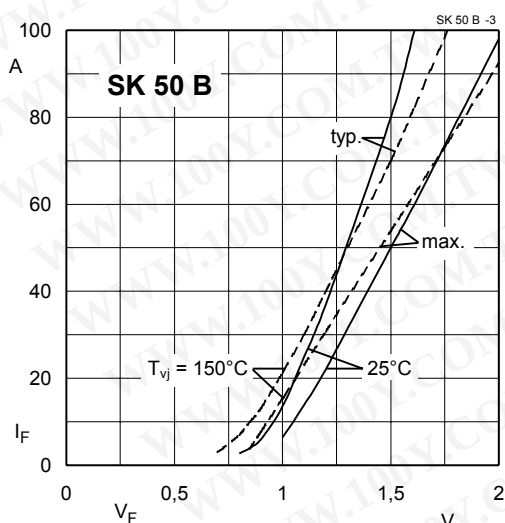


Fig. 3 Forward characteristic of single diode

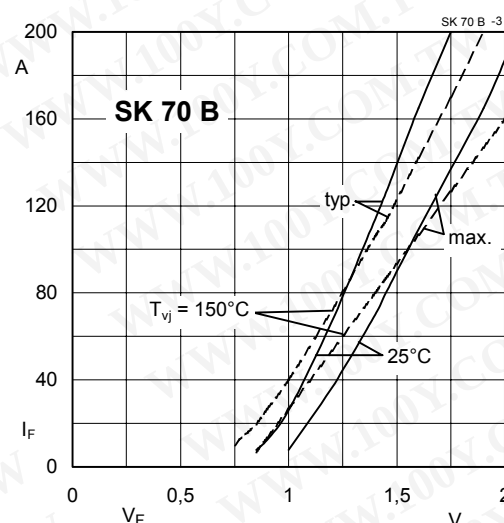


Fig. 3 Forward characteristic of single diode

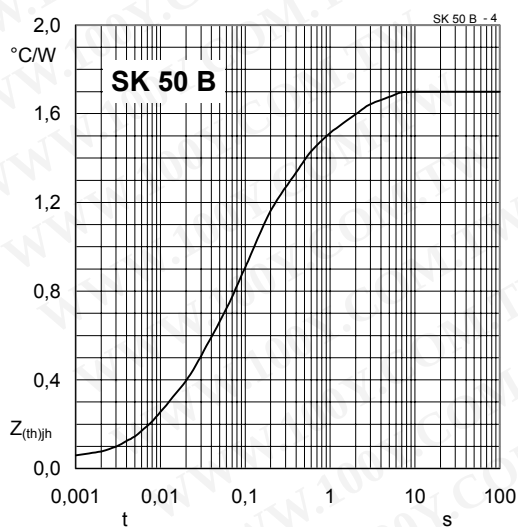


Fig. 4 Thermal transient impedance vs. time

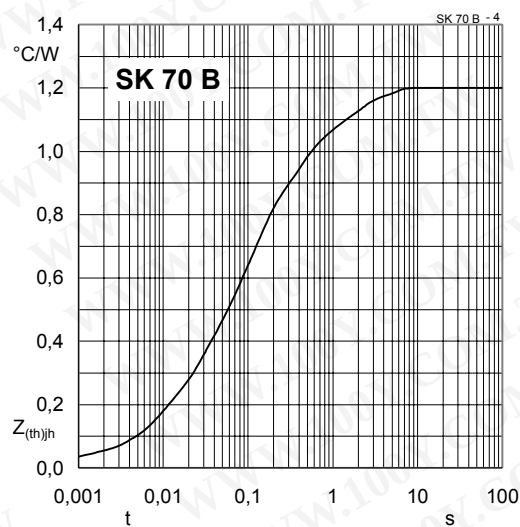


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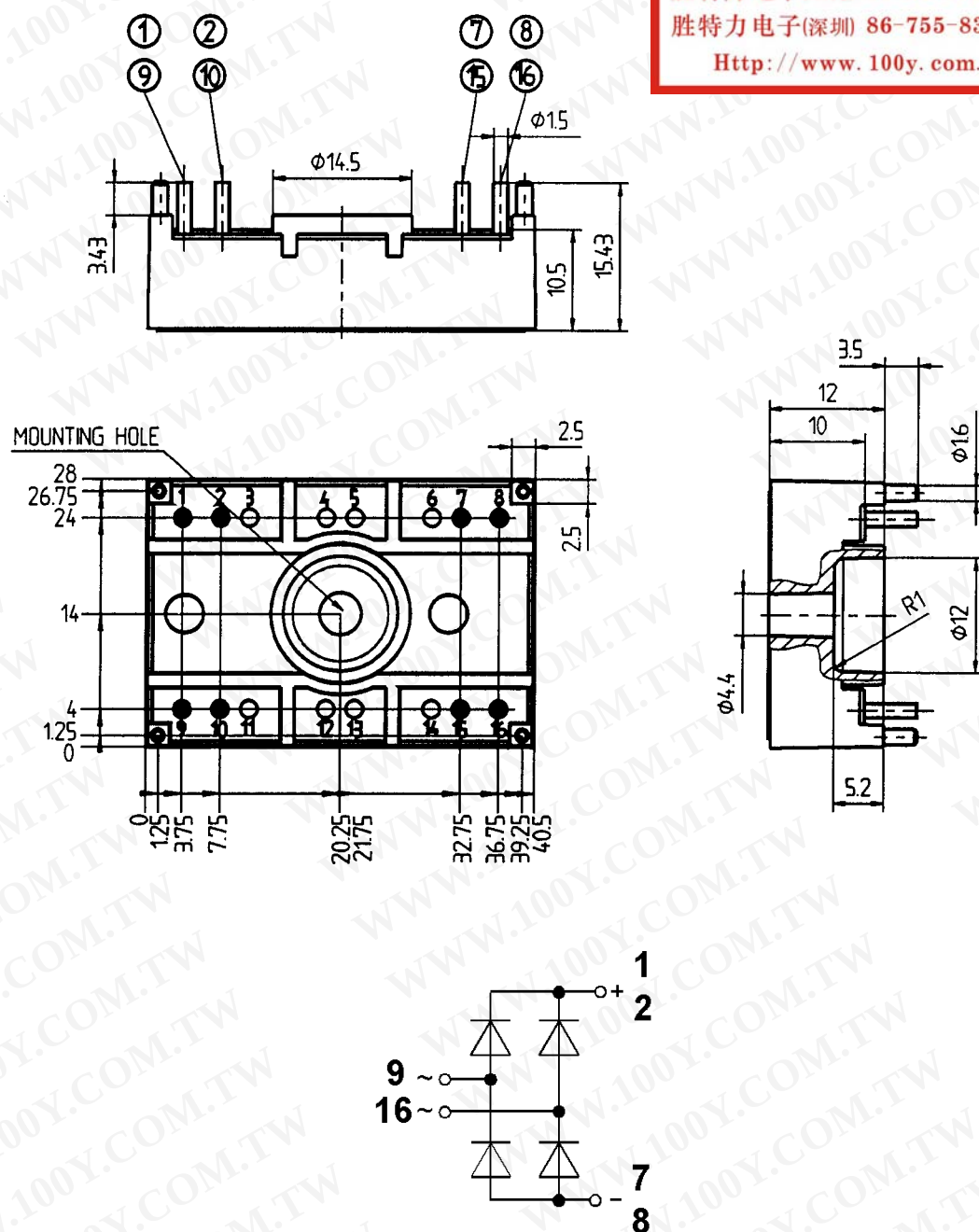
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Case T 6

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Dimensions in mm

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