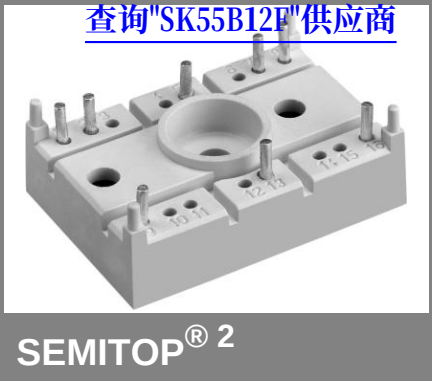


SK 55 B 12 F



Bridge Rectifier

SK 55 B 12 F

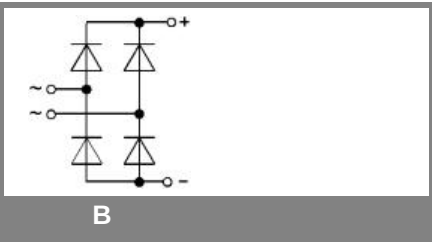
Preliminary Data

Features

- Compact design
- One screw mounting
- Heat transfer and insulation through direct copper bonded aluminium oxide ceramic (DCB)
- Fast and soft recovery CAL (Controlled Axial Lifetime) diode
- UL recognized, file no. E 63 532

Typical Applications

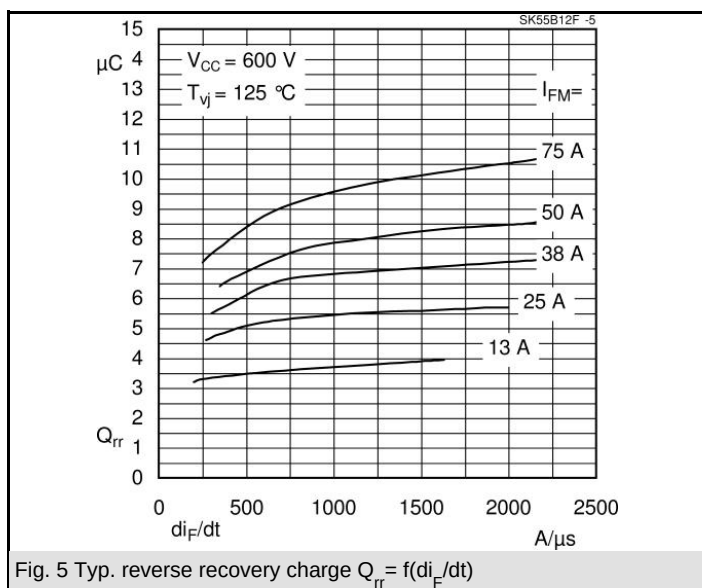
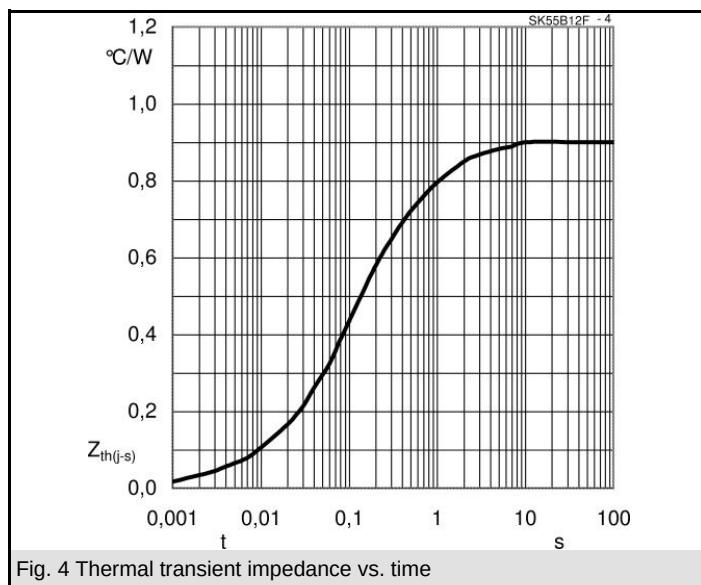
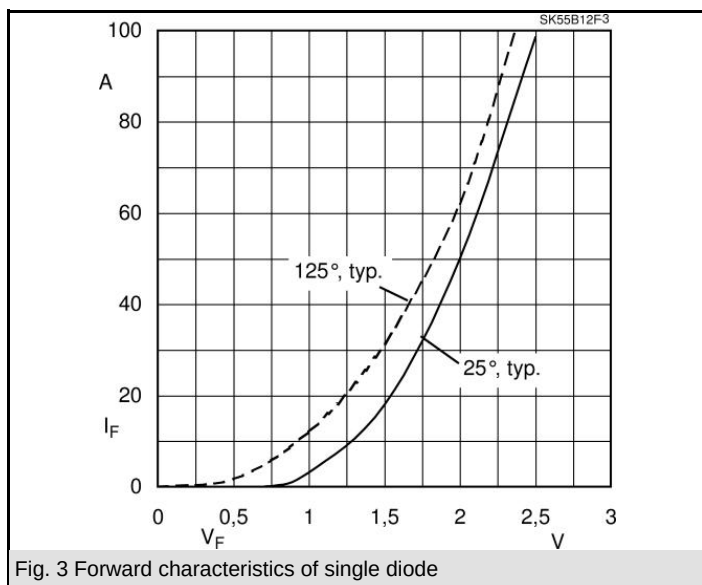
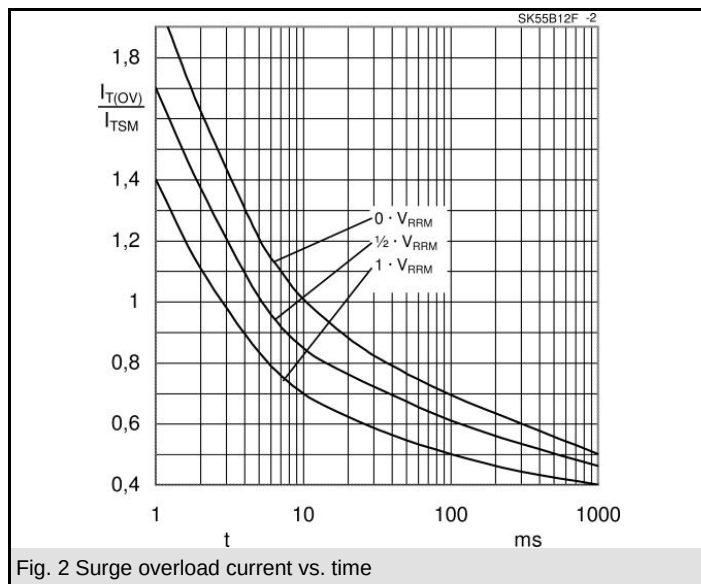
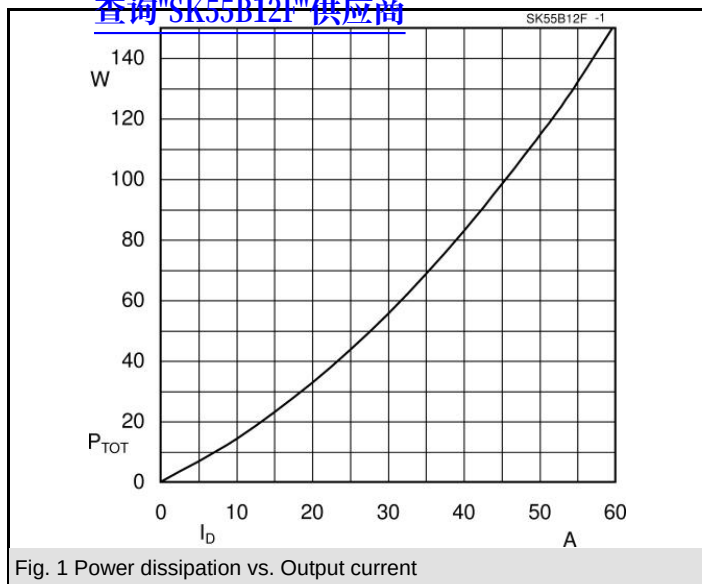
- General power switching applications
- UPS
- SMPS



V_{RSM} V	V_{RRM}, V_{DRM} V	$I_D = 57\text{ A (full conduction)}$ ($T_s = 80\text{ }^{\circ}\text{C}$)
	1200	SK 55 B 12 F

Symbol	Conditions	Values	Units
I_D	$T_s = 80\text{ }^{\circ}\text{C}$	57	A
I_{RRM}	$T_{vj} = 125\text{ }^{\circ}\text{C}$ (See Fig. 6)	typ. 40	A
Q_{rr}	$T_{vj} = 25\text{ (125)}\text{ }^{\circ}\text{C}$ (See Fig. 6)	typ. 3 (8)	μC
I_R	$T_{vj} = 25\text{ (150)}\text{ }^{\circ}\text{C}; V_R = V_{RRM}$	0,2 (4)	mA
I_{FSM}	$T_{vj} = 150\text{ }^{\circ}\text{C}; 10\text{ ms}$	550	A
i^2t	$T_{vj} = \text{ }^{\circ}\text{C}; \text{ms}$ $T_{vj} = 150\text{ }^{\circ}\text{C}; 10\text{ ms}$ $T_{vj} = \text{ }^{\circ}\text{C}; \text{ms}$	1500	A A^2s A^2s
V_F	$T_{vj} = 25\text{ }^{\circ}\text{C}; I_F = 50\text{ A}$	max. 2,5	V
$V_{(TO)}$	$T_{vj} = 125\text{ }^{\circ}\text{C}$	max. 1,2	V
r_T	$T_{vj} = 125\text{ }^{\circ}\text{C}$	max. 22	$\text{m}\Omega$
I_{RD}	$T_{vj} = \text{ }^{\circ}\text{C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$		mA mA
$R_{th(j-s)}$	per diode per module	0,9 0,23	K/W K/W
T_{solder}	terminals, 10s	260	$^{\circ}\text{C}$
T_{vj}		-40...+150	$^{\circ}\text{C}$
T_{stg}		-40...+125	$^{\circ}\text{C}$
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3000 (2500)	V
M_s	mounting torque to heatsink	2	Nm
M_t			
m	approx. weight	19	g
Case	SEMISTOP [®] 2	T 6	

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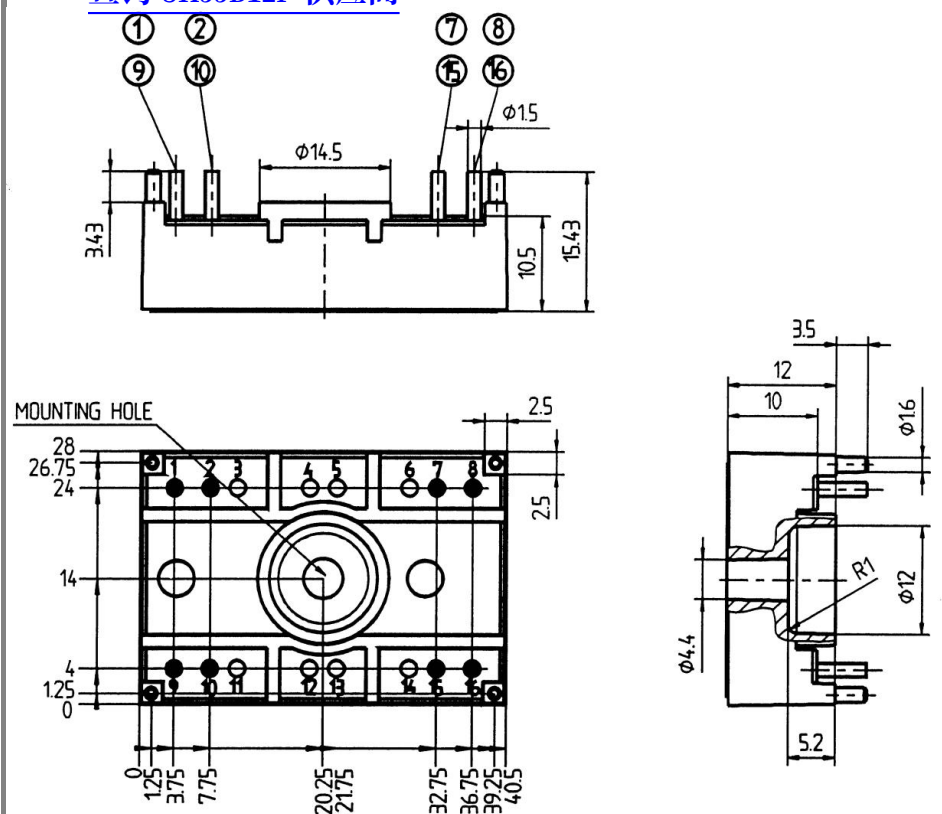
Measurement conditions for switching parameters:

$I_F = 50A$
 $V_R = 600V$
 $-di/dt = 800A/\mu s$

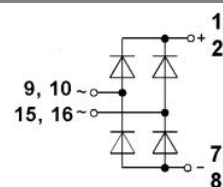
Fig. 6

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Dimensions in mm



Case T6 (Suggested hole diameter, in the PCB, for solder pins and plastic mounting pins = 2mm)



Case T6

B

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