

SK 55 B 12 F



SEMITOP® 2

Bridge Rectifier

SK 55 B 12 F

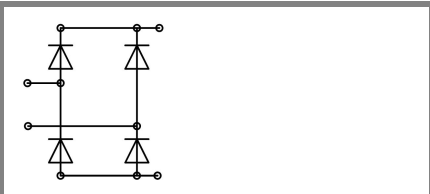
Preliminary Data

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

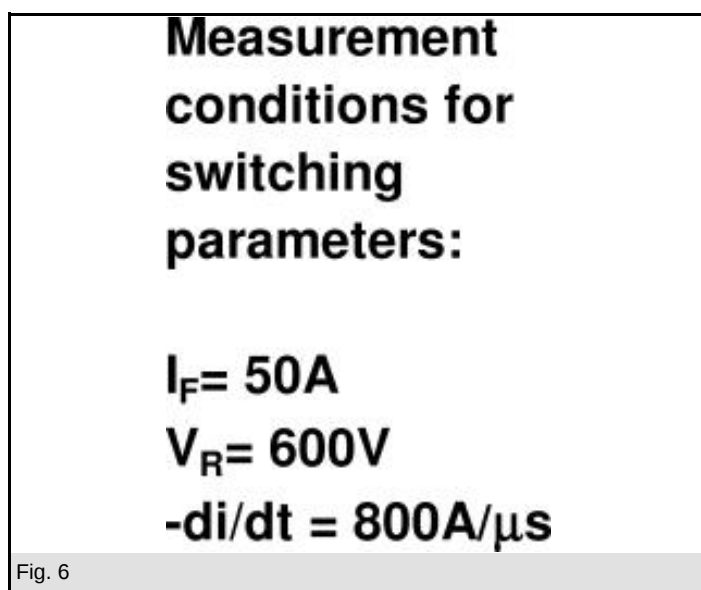
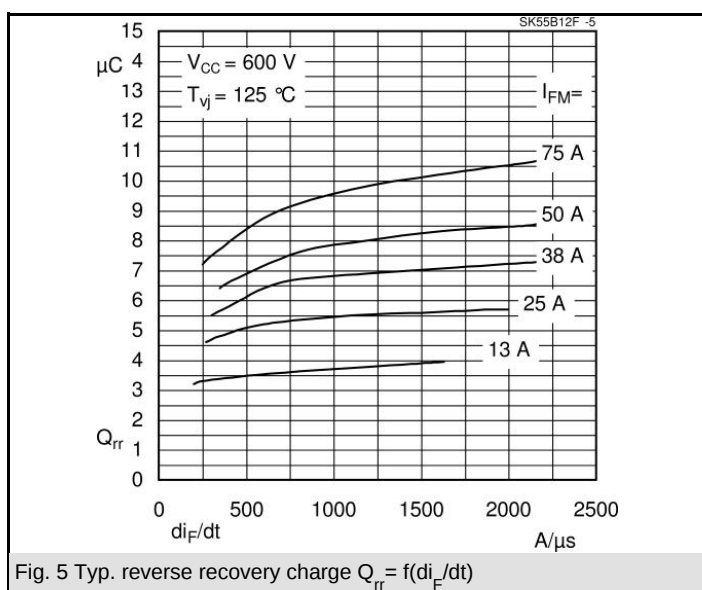
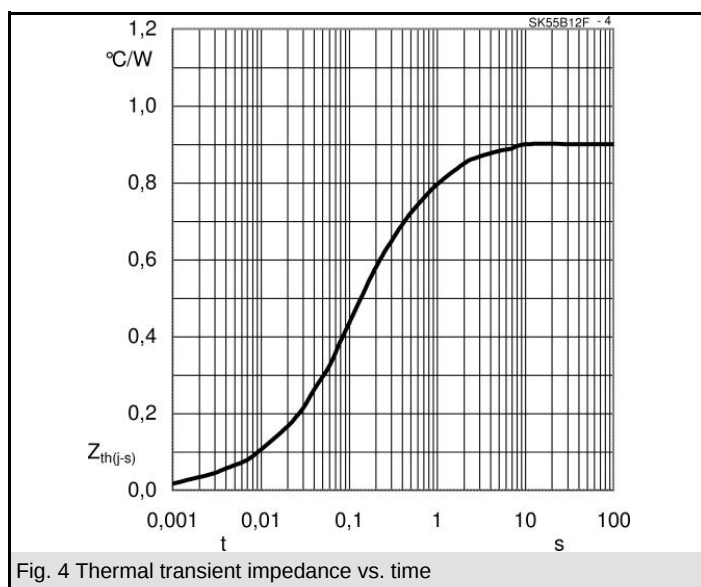
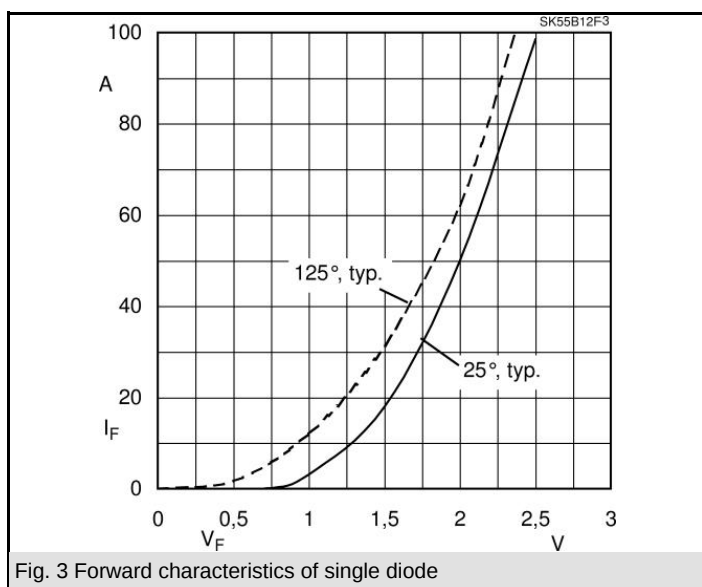
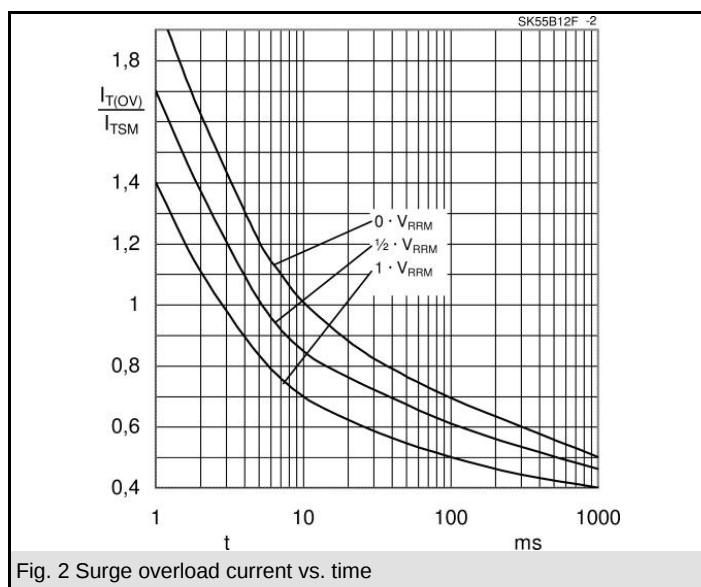
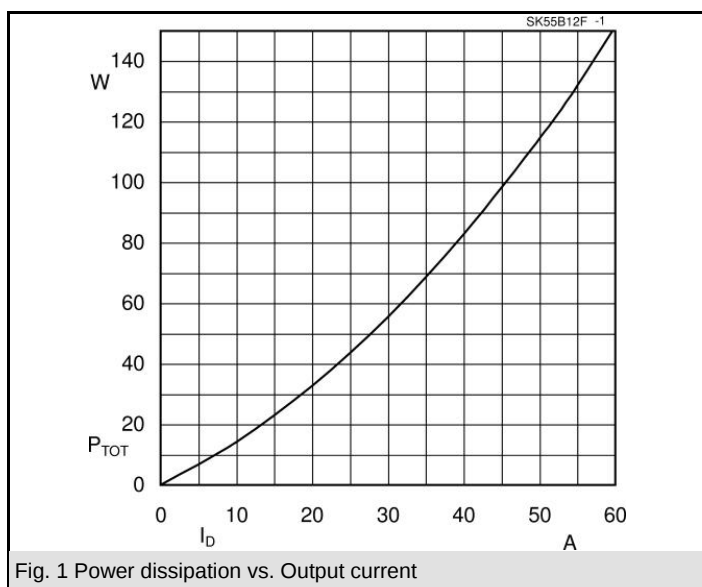
Typical Applications

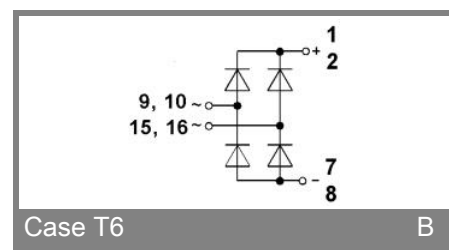
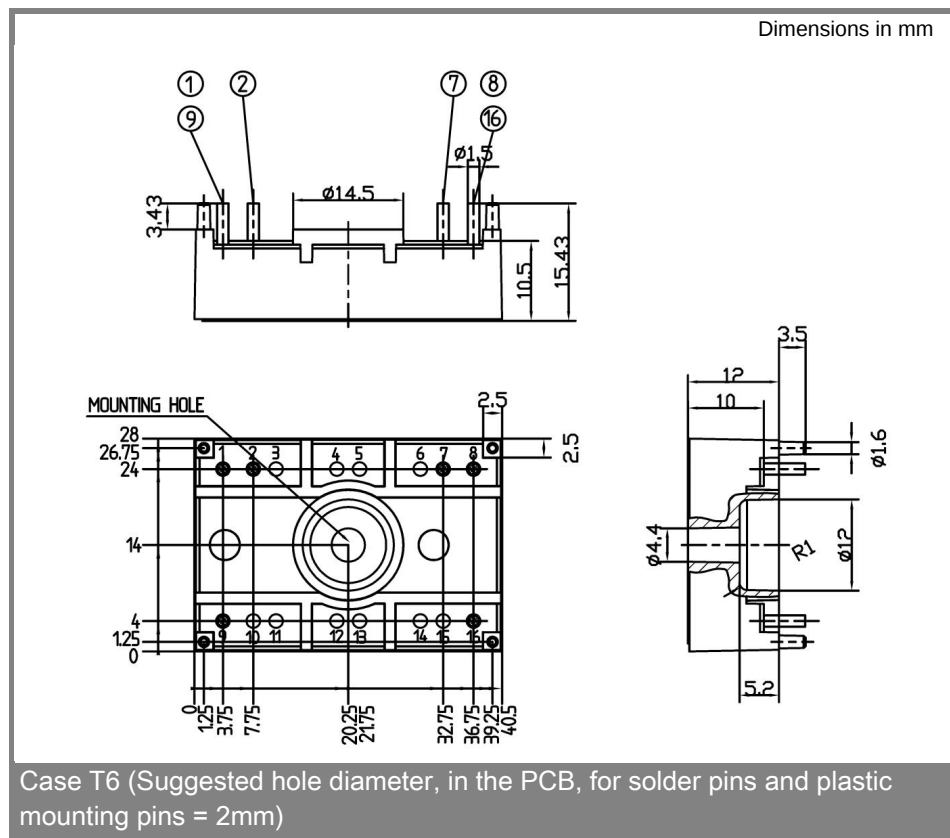
- General power switching applications
- UPS
- SMPS



B

V_{RSM} V	V_{RRM}, V_{DRM} V	$I_D = 57\text{ A (full conduction)}$ ($T_s = 80\text{ °C}$) SK 55 B 12 F	
	1200		
Symbol	Conditions	Values	Units
I_D	$T_s = 80\text{ °C}$	57	A
I_{RRM}	$T_{vj} = 125\text{ °C}$ (See Fig. 6)	typ. 40	A
Q_{rr}	$T_{vj} = 25\text{ (125) °C}$ (See Fig. 6)	typ. 3 (8)	μC
I_R	$T_{vj} = 25\text{ (150) °C}; V_R = V_{RRM}$	0,2 (4)	mA
I_{FSM}	$T_{vj} = 150\text{ °C}; 10\text{ ms}$	550	A
i^2t	$T_{vj} = \text{°C}; \text{ms}$	1500	A
	$T_{vj} = 150\text{ °C}; 10\text{ ms}$		A^2s
	$T_{vj} = \text{°C}; \text{ms}$		A^2s
V_F	$T_{vj} = 25\text{ °C}; I_F = 50\text{ A}$	max. 2,5	V
$V_{(TO)}$	$T_{vj} = 125\text{ °C}$	max. 1,2	V
r_T	$T_{vj} = 125\text{ °C}$	max. 22	$\text{m}\Omega$
I_{RD}	$T_{vj} = \text{°C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$		mA
			mA
$R_{th(j-s)}$	per diode	0,9	K/W
	per module	0,23	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.	3000 (2500)	V
M_s	mounting torque to heatsink	2	Nm
M_t			
m	approx. weight	19	g
Case	SEMITOP® 2	T 6	





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