SK 55 B 06 F



Bridge Rectifier

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Preliminary Data

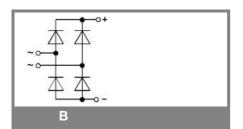
Features

- 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

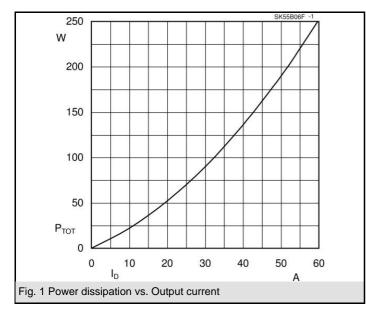
Typical Applications

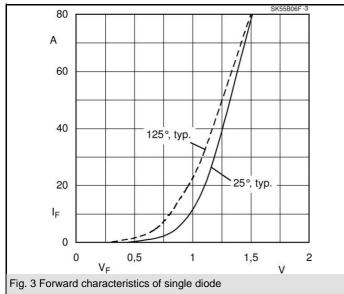
- General power switching applications
- UPS
- SMPS

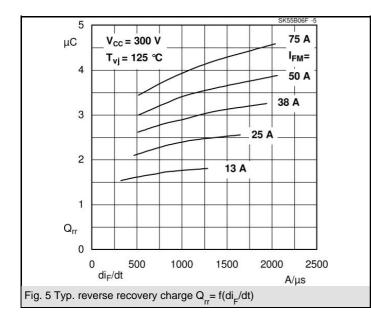
V _{RSM} V _{RRM} , V _{DRM} V V 600				$I_D = {}^{54} A$ (full conduction)	
				(T _s = 80 °C)	
		SK 55 B 06 F			
Symbol	Con	ditions		Values	Units
I _D	3	80 °C		54	А
I _{RRM}		T _{vj} = 125°C (See Fig. 6)		30	А
Q _{rr}	T _{vj} = 25 (125)°C (See Fig. 6))	typ. 1 (3)	μC
I _R	T _{vj} = 25 (125)°C; V _R =V _{RRM}			0,1 (4)	mA
I _{FSM}		150 °C; 10 ms		440	A
		°C; ms			А
i²t	T _{vi} =	150 °C; 10 ms		970	A²s
	T _{vi} =	°C; ms			A²s
V _F	T _{vi} = 25 °C; I _F = 50 A			max. 1,7	V
V _(TO)		125 °C		max. 0,9	V
r _T	T _{vi} =	125 °C		max. 16	mΩ
I _{RD}	T _{vi} =	°C; V _{DD} = V _{DRM} ; V _{RD} =	= V _{RRM}		mA
					mA
R _{th(j-s)}	per d	iode		1,2	K/W
	per n	nodule		0,3	K/W
T _{solder}	Ider terminals, 10s			260	°C
T _{vi}				-40+150	°C
T _{stg}				-40+125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.			3000 (2500)	V
Ms	mounting torque to heatsink			2	Nm
M,		- •			
m	approx. weight			19	g
Case	SEMITOP [®] 2			Т 6	

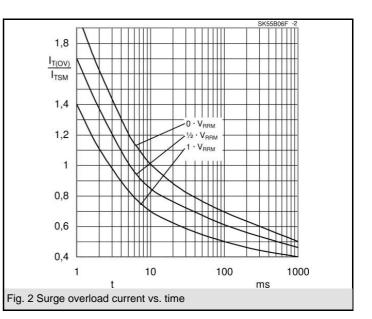


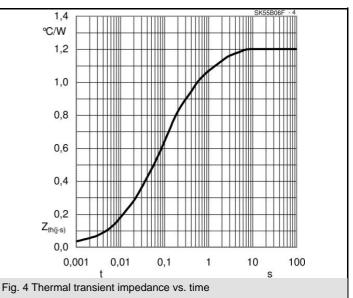
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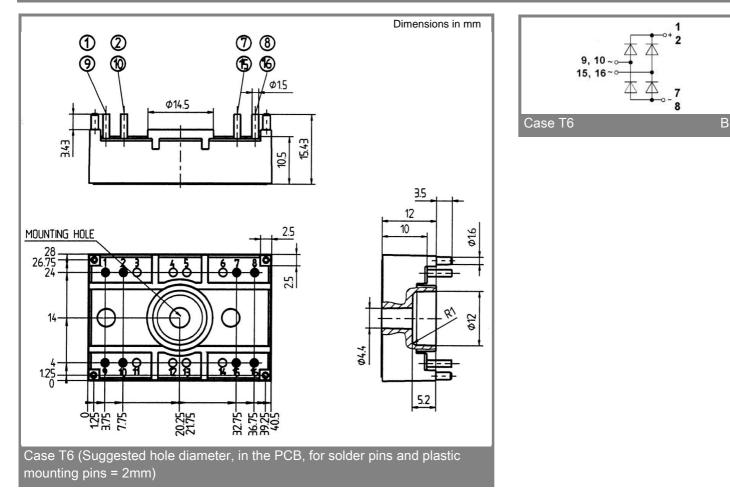


Measurement conditions for switching parameters:

I_F= 50A V_R= 300V -di/dt = 500A/μs

Fig. 6

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