SK 80 D 12 F



SEMITOP[®] 3

Bridge Rectifier

SK 80 D 12 F

Preliminary Data

Features

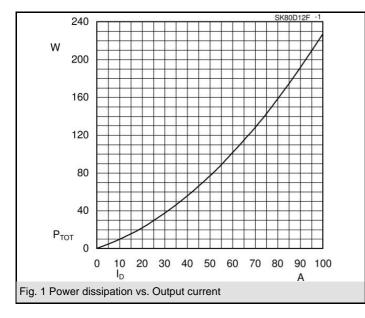
- Compact design
- One screw mounting
- Heat transfer and insulation through direct copper bonded aluminium oxide ceramic (DCB
- Fast and soft recovery CAL (Controlled Axial Lifetime) diode
- UL recognized, file no. E 63 532

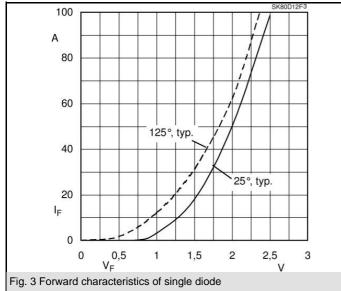
Typical Applications

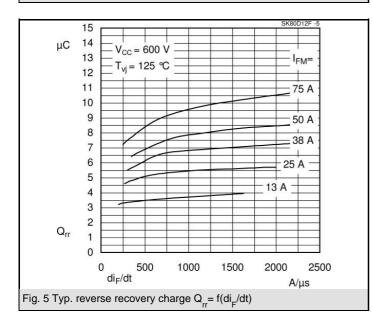
- General power switching applications
- UPS
- SMPS

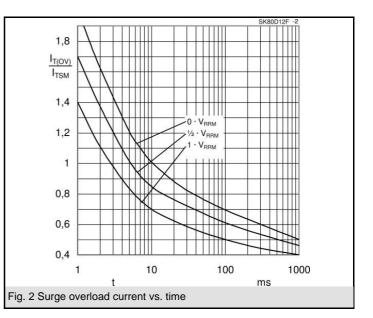
V _{RSM} V		V _{RRM} , V _{DRM}		I _D = 80 A (ful	I _D = 80 A (full conduction)		
		V		(T _s = 80 °C)			
		1200		SK 80	D 12 F		
Symbol	Cor	ditions			Values	Units	
I _D		80 °C			80	A	
I _{RRM}	$T_{vi}^{s} = T_{vi}$	125°C (See Fig. 6)	f	typ. 40	А		
Q _{rr}	$T_{vi} = 2$	25 (125)°C (See Fig. 6	ty	/p. 3 (8)	μC		
I _R	T _{vi} =	25 (150)°C; V _R =V _{RRM}		0,2 (4)	mA		
I _{FSM}		150 °C; 10 ms		550			
		°C; ms				А	
i²t	$T_{vj} =$	150 °C; 10 ms			1500	A²s	
	T _{vi} =	°C; ms				A²s	
V _F	$I_{\rm F}$ $T_{\rm vi} = 25 ^{\circ}{\rm C}; I_{\rm F} = 75 {\rm A}$			n	nax. 2,5	V	
V _(TO)		125 °C		m	nax. 1,2	V	
r _T	$T_{vj} =$	125 °C		n	nax. 22	mΩ	
I _{RD}	T _{vj} =	°C; V_{DD} = V_{DRM} ; V_{RD}	= V _{RRM}			mA	
						mA	
R _{th(j-s)}	per d	liode			0,9	K/W	
	per n	nodule			0,15	K/W	
T _{solder}	ler terminals, 10s			260		°C	
T _{vi}	vi			-40+150		°C	
T _{stg}				-4	0+125	°C	
V _{isol}	a. c.	50 Hz; r.m.s.; 1 s / 1 r	300	0 (2500)	V		
M _s	mour	nting torque to heatsir		2,5	Nm		
M _t							
m	approx. weight				30		
Case	SEMITOP® 3				T 25		

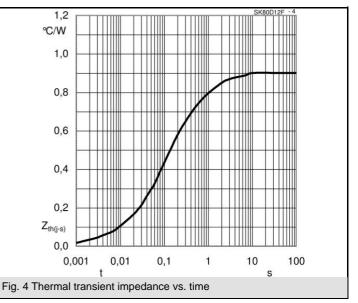
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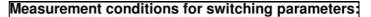






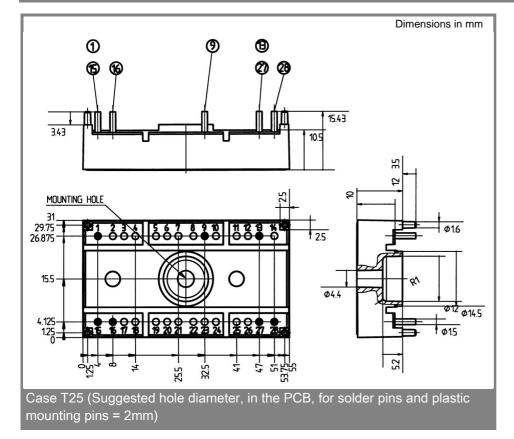


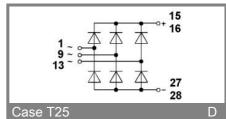




I_F= 50A V_R= 600V -di/dt = 800A/μs ^{Fig. 6}

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