SK 80 D 12 F



Bridge Rectifier

SK 80 D 12 F

Preliminary Data

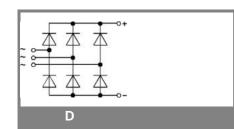
Features

- 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

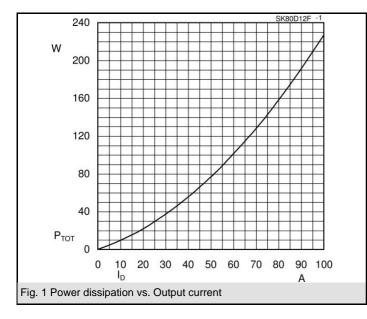
Typical Applications

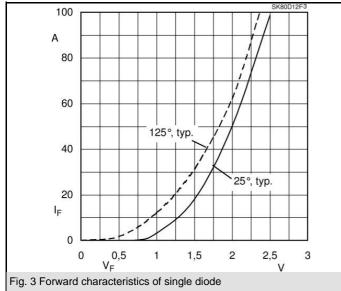
- General power switching applications
- UPS
- SMPS

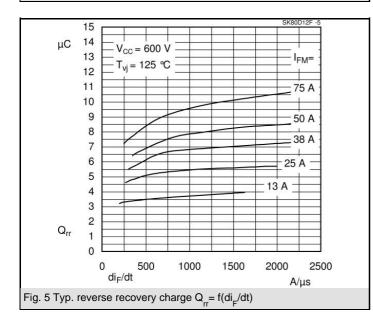
V _{RSM} V _{RRM} , V _{DRM} V V 1200		V _{RRM} , V _{DRM}	I _D = 80 A (full conduction)		
		V	(T _s = 80 °C)	(T _s = 80 °C)	
		1200	SK 80 D 12 F		
Symbol	Con	ditions	Values	Units	
I _D	T _s = 8	80 °C	80	А	
I _{RRM}	T _{vi} = 125°C (See Fig. 6)		typ. 40	А	
Q _{rr}	T _{vj} = 25 (125)°C (See Fig. 6)		typ. 1,5 (2,7)	μC	
I _R	$T_{vi} = 2$	25 (150)°C; V _R =V _{RRM}	0,2 (4)	mA	
I _{FSM}	T _{vi} = 150 °C; 10 ms		550	A	
		°C; ms		А	
i²t	T _{vi} =	150 °C; 10 ms	1500	A²s	
	T _{vi} =	°C; ms		A²s	
V _F	T _{vi} =	25 °C; I _F = 75 A	max. 2,5	V	
V _(TO)	T _{vi} =	125 °C	max. 1,2	V	
r _T	T _{vi} =	125 °C	max. 22	mΩ	
I _{RD}	T _{vj} =	°C; $V_{DD} = V_{DRM}$; $V_{RD} =$	м	mA	
				mA	
R _{th(j-s)}	per d	iode	0,9	K/W	
	per n	nodule	0,15	K/W	
T _{solder}	older terminals, 10s		260	°C	
T _{vi}			-40+150	°C	
T _{stg}	q		-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		2,5	Nm	
M _t					
m	appro	ox. weight	30	g	
Case	Case SEMITOP [®] 3		Т 25		

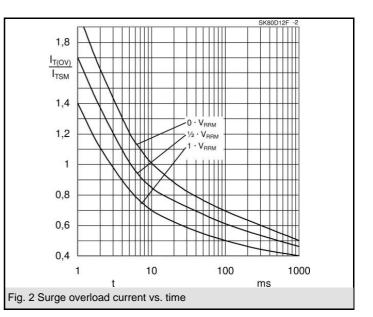


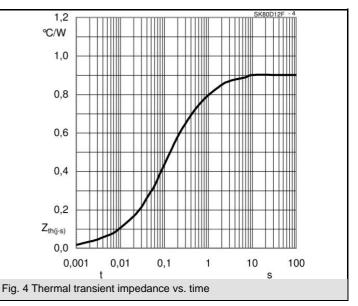
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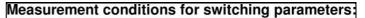






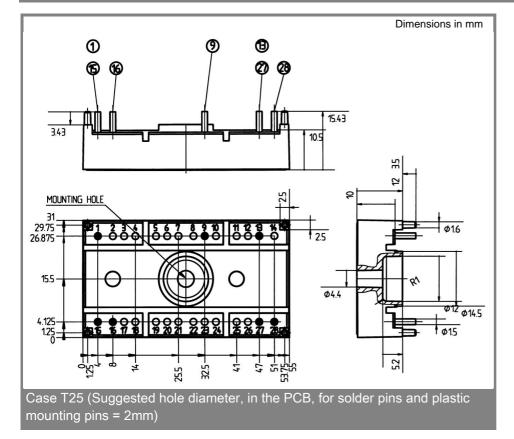


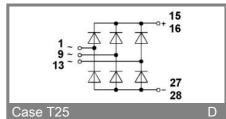




I_F= 50A V_R= 600V -di/dt = 800A/μs ^{Fig. 6}

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