SUPERFAST RECOVERY 1 PHASE FULL WAVE BRIDGE RECTIFIERS

SCBH05FF SCBH10FF SCBH15FF

January 16, 1998

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SUPERFAST RECOVERY, LOW CURRENT 1-PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLIES

- · Very fast reverse recovery time
- Low forward voltage drop
- Low reverse leakage current
- Aluminum case
- Low thermal impedance

QUICK REFERENCE DATA

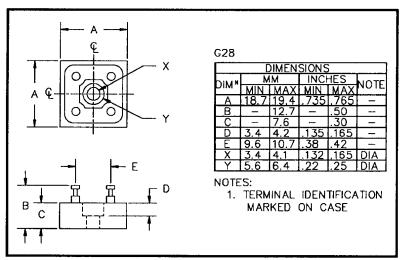
- $V_R = 50V 150V$
- $I_F = 12A$
- $V_F = 0.97V$
- $t_{rr} = 30nS$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage VRWM	Average Rectified Current I _{F(AV)}						1 Cycle Surge Current I _{FSM} t _p = 8.3mS		Repetitive Surge Current
		(@ case temperature)			(@ ambient temperature)					I _{FRM}
		@ 55°C	@ 100°C	@ 125℃	@ 25°C	@ 55°C	@ 100℃	© 25°C	@ 100°C	@ 25 ℃
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SCBH05FF SCBH10FF SCBH15FF	50 100 150	12	9	7.5	5	3.8	2	175	120	24

 $R_{\theta JC} = 3.3^{o}C/W$

MECHANICAL

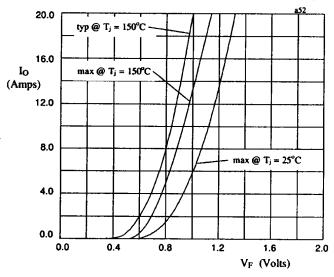


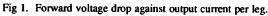
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ELECTRICAL CHARACTERISTICS

Device	Leakage	n Reverse Current V _{RWM}	Maximum Forward Voltage	Reverse Recovery Time ¹	Maximum operating & storage temp. range.	
Туре	@ 25℃	@ 100°C	V _F @ 5A/leg	t _{rr} @ 25°C		
	μΑ	mA	Volts	nS	°C	
SCBH05FF SCBH10FF SCBH15FF	20	1.0	0.97	30	- 55 to +150	

¹ Measured on discrete devices prior to assembly





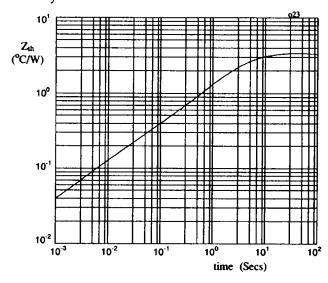
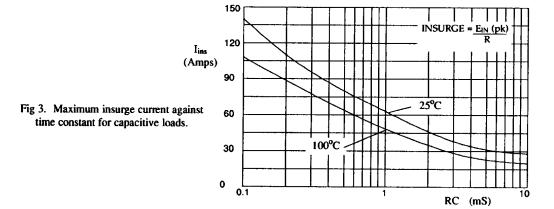


Fig 2. Transient thermal impedance characteristic per leg



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