

### SUPERFAST RECOVERY 1 PHASE FULL WAVE BRIDGE RECTIFIERS

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

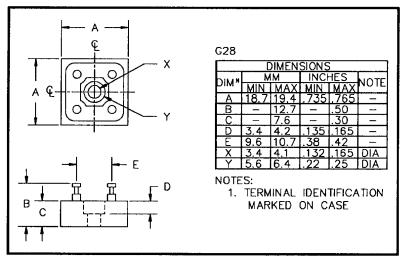
- V<sub>R</sub> = 50V 150V
- IF = 12A
- V<sub>F</sub> = 0.97V
- t<sub>rr</sub> = 30nS

Device Type	Working Reverse Voltage VRWM		Average se tempera		ed Current IF(AV) (@ ambient temperature)			1 Cycle Surge Current I <sub>FSM</sub> t <sub>P</sub> = 8.3mS		Repetitive Surge Current I <sub>FRM</sub>
		@ 55°C	@ 100°C	@ 125°C	@ 25°C	@ 55°C	@ 100°C	@ 25°C	@ 100°C	@ 25 °C
	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

#### **ABSOLUTE MAXIMUM RATINGS**

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

#### **MECHANICAL**

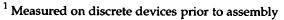


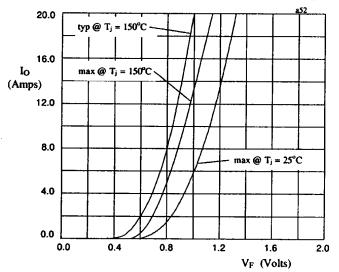


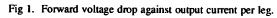
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Device	Leakage	n Reverse Current Vrwm	Maximum Forward Voltage	Reverse Recovery Time <sup>1</sup>	Maximum operating & storage	
Туре	@ 25°C	@ 25°C @ 100°C		trr @ 25°C	temp. range. Top Tsrc	
	μA	mA	Volts	nS	°C	
SCBH05FF SCBH10FF SCBH15FF	20	1.0	0.97	30	- 55 to +150	

#### **ELECTRICAL CHARACTERISTICS**







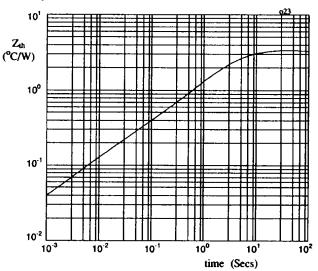


Fig 2. Transient thermal impedance characteristic per leg

