January 16, 1998

TEL:805-498-2111 FAX:805-498-3804 WEB:http://www.semtech.com

FAST RECOVERY, MEDIUM CURRENT 3-PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLIES

- Low forward voltage drop
- Low reverse leakage current
- Aluminum case
- Low thermal impedance
- Fast reverse recovery time

QUICK REFERENCE DATA

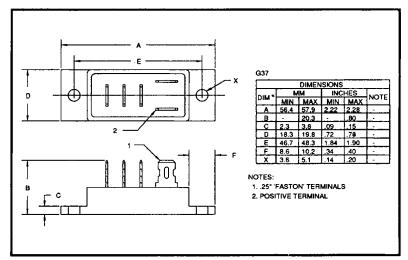
- $V_R = 50V 400V$
- $I_F = 15A$
- $I_R = 3\mu A$
- $t_{rr} = 150 nS$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage VRWM	Average Rectified Current I _{F(AV)}						1 Cycle Surge Current	
		@ case temperature			@ ambient temperature			$I_{PSM} @ t_p = 8.3 \text{mS}$	
		@ 55°C	@ 100°C	@ 125°C	@ 25°C	@ 55°C	@ 100°C	@ 25°C	@ 100°C
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SC3BA05F	50	15	10.5	7.5	6	5	3	150	100
SC3BA1F	100								
SC3BA2F	200								
SC3BA4F	400								

 $R_{\theta JC} = 2.5^{\circ}C/W$

MECHANICAL



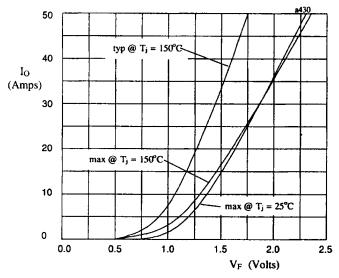
SC3BA4F is available in Europe to DEF STAN 59-61/90/208 release to F and FX levels.

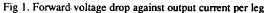
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ELECTRICAL CHARACTERISTICS

Maximum operating & storage temp range. Tor Tstc		
		°C
- 55		
to +150		
		-

¹ Measured on discrete devices prior to assembly





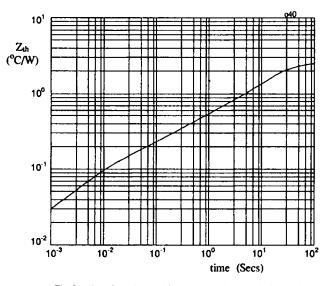
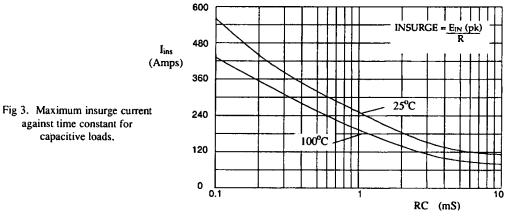


Fig 2. Transient thermal impedance characteristic per leg



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SC3BA4F SC3BA1F SC3BA2F