

January 16, 1998

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

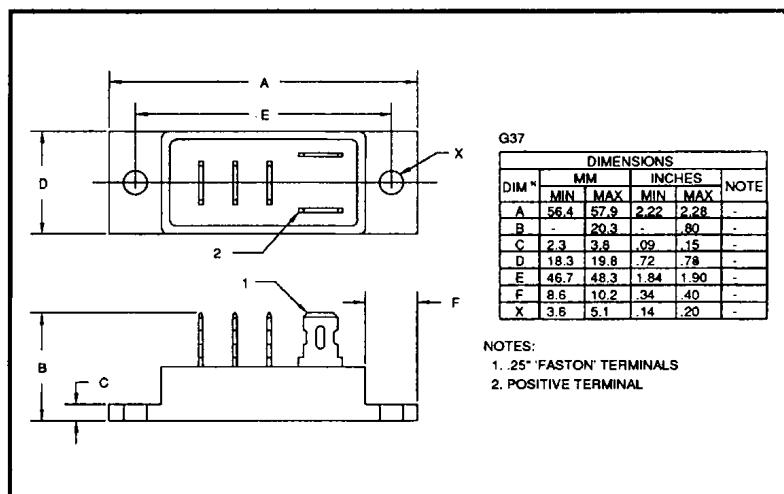
- Low forward voltage drop
- Low reverse leakage current
- Aluminum case
- Low thermal impedance
- Fast reverse recovery time

**QUICK REFERENCE DATA**

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

**ABSOLUTE MAXIMUM RATINGS**

Device Type	Working Reverse Voltage $V_{RWM}$	Average Rectified Current $I_{F(AV)}$						1 Cycle Surge Current $I_{FSM} @ t_p = 8.3ms$	
		@ case temperature			@ ambient temperature				
		@ 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	Amps
SC3BA05F	50								
SC3BA1F	100	15	10.5	7.5	6	5	3	150	100
SC3BA2F	200								
SC3BA4F	400								

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

Device Type	Reverse Leakage Current $I_R$ @ $V_{RWM}$		Maximum Forward Voltage $V_F$ @ 3A/leg @ 25°C	Maximum Reverse Recovery Time $t_{rr}$ @ 25°C	Maximum operating & storage temp range. $T_{OP}$ $T_{STG}$
	@ 25°C	@ 100°C			
	μA	μA			
SC3BA05F					- 55
SC3BA1F		3.0	75	1.1	to
SC3BA2F				150	+150
SC3BA4F					

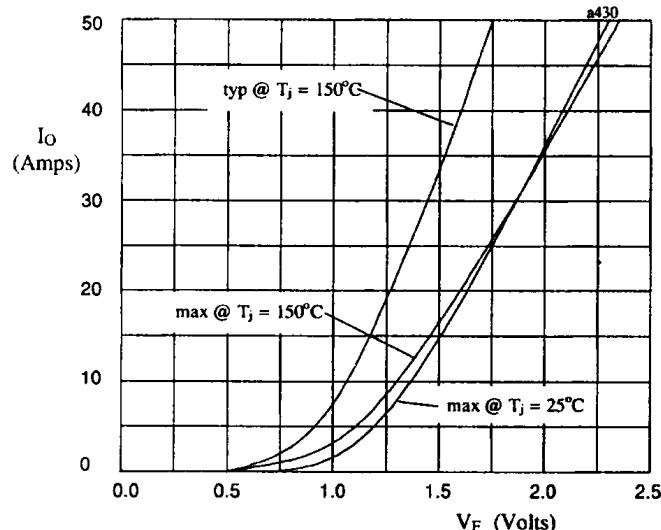
<sup>1</sup> Measured on discrete devices prior to assembly


Fig 1. Forward voltage drop against output current per leg

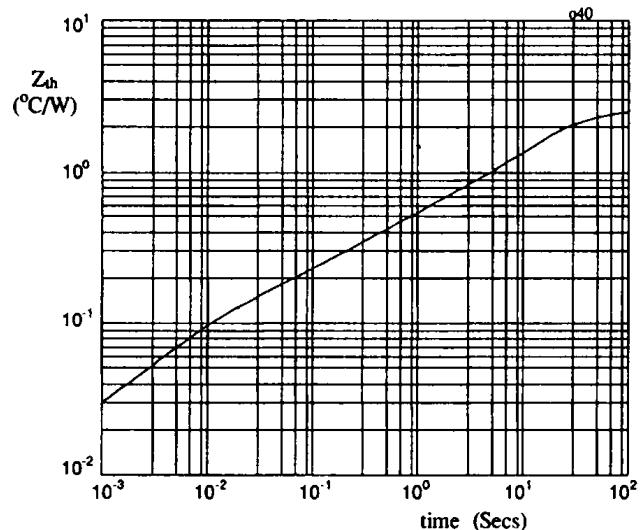


Fig 2. Transient thermal impedance characteristic per leg

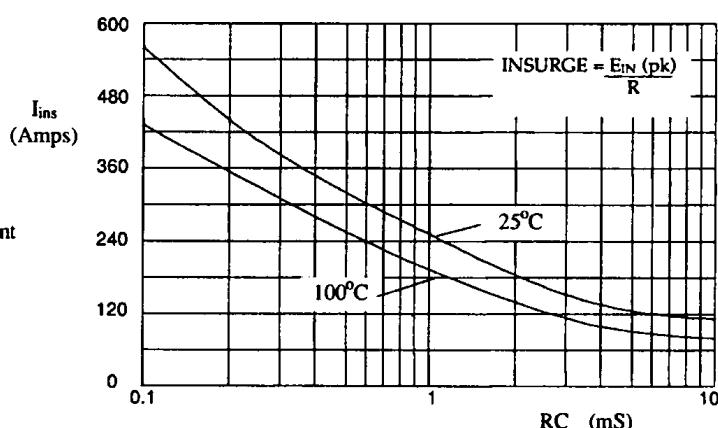


Fig 3. Maximum insure current against time constant for capacitive loads.