

January 29, 1998

**FAST RECOVERY, MEDIUM CURRENT 1-PHASE FULL
WAVE BRIDGE RECTIFIER ASSEMBLIES**

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

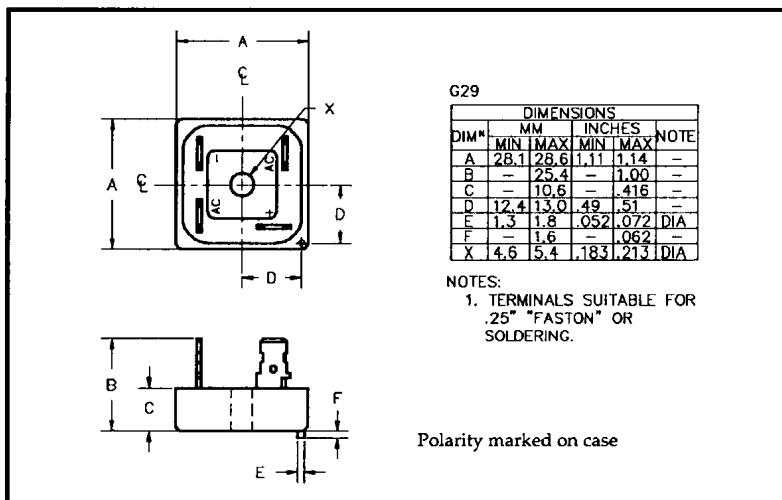
**QUICK REFERENCE
DATA**

- $V_R = 50V - 400V$
- $I_F = 20.0A$
- $I_R = 2.0 \mu A$
- $t_{rr} = 150ns$

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
SCBA05F	50								
SCBA1F	100								
SCBA2F	200	20	15	10	5.0	4.0	2.5	150	80
SCBA4F	400								

$$R_{eJC} = 2.0^\circ\text{C}/\text{W}$$

MECHANICAL


SCBA4F is available in Europe to DEF STAN 59-61/90/207 release to F and FX levels.

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ELECTRICAL CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current I_R @ V_{RWM}		Maximum Forward Voltage V_F @ 3A/leg	Reverse Recovery Time ¹ t_{rr} @ 25°C	Maximum operating & storage temp. range. T_{OP} T_{STG}
	@ 25°C	@ 100°C			
	μA	μA	Volts	nS	°C
SCBA05F				150	
SCBA1F				150	-55 to +150
SCBA2F	2.0	50	1.1	150	
SCBA4F				150	

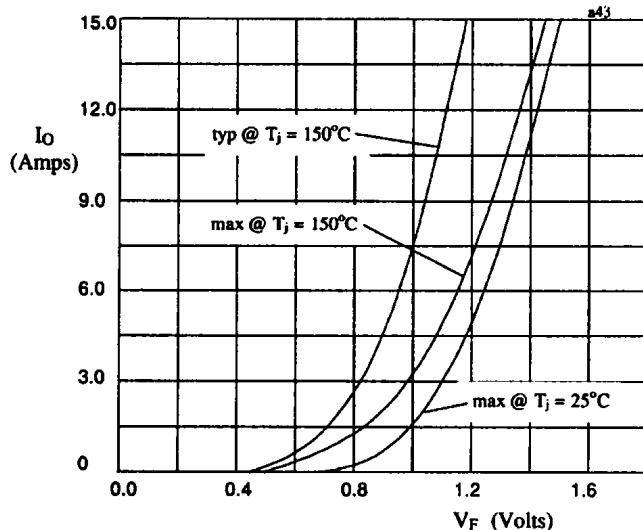
¹ Measured on discrete devices prior to assembly


Fig 1. Forward voltage drop against output current per leg.

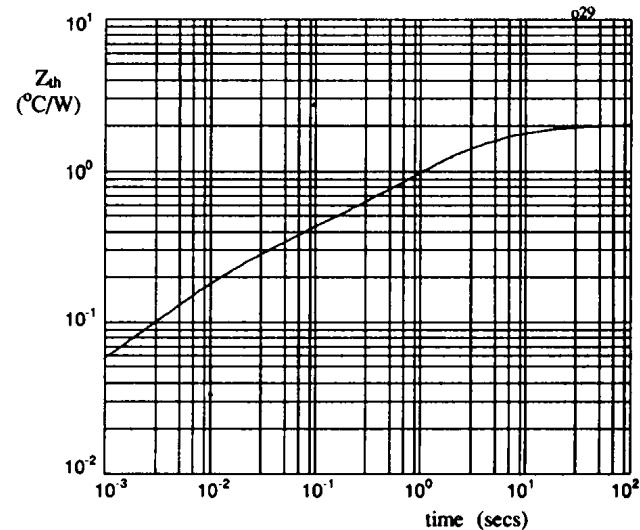


Fig 2. Transient thermal impedance characteristic per leg

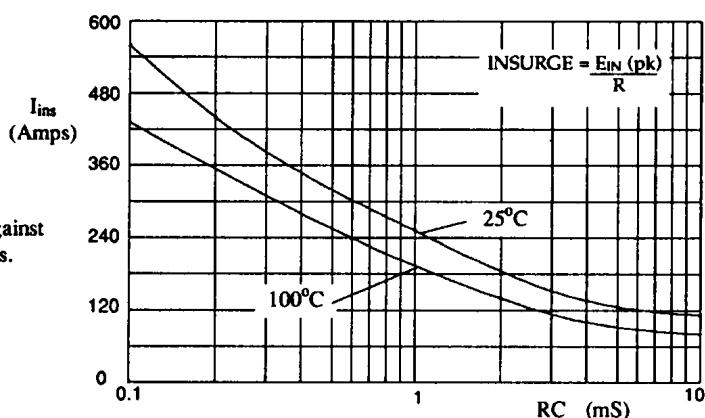


Fig 3. Maximum surge current against time constant for capacitive loads.