

January 16, 1998

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

- Low forward voltage drop
- Low reverse leakage current
- Aluminum case
- Low thermal impedance
- Insulated electrical connections

**QUICK REFERENCE
DATA**

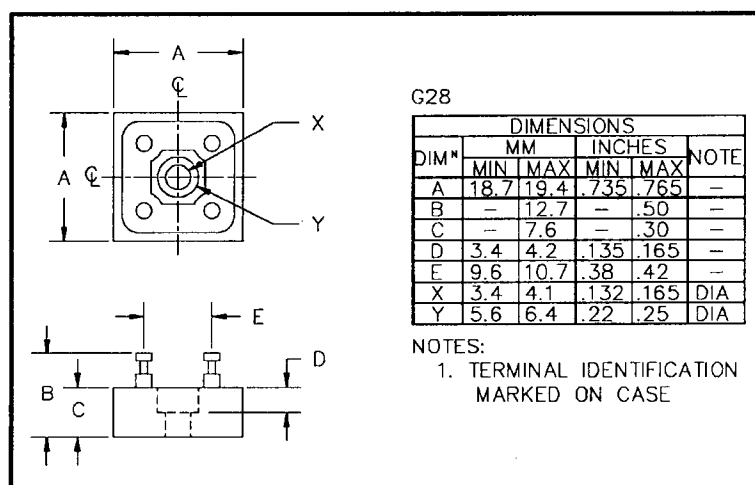
- $V_R = 200V - 600V$
- $I_F = 5.0A$
- $I_R = 2.0\mu A$
- $t_{rr} = 2.0\mu S$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)}$						1 Cycle Surge Current I_{FSM} $t_p = 8.3ms$		Repetitive Surge Current I_{FRM}
		(@ case temperature)			(@ ambient temperature)			@ 25°C	@ 100°C	
		@ 55°C	@ 100°C	@ 125°C	@ 25°C	@ 55°C	@ 100°C			
Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	
SCAJ2	200									
SCAJ4	400	5.0	3.5	2.5	2.0	1.5	1.1	50	35	10
SCAJ6	600									

$R_{\theta JC} = 5^{\circ}C/W$

MECHANICAL



SCAJ6 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 $V_F @ 1A/leg$	Reverse Recovery Time ¹ $t_{rr} @ 25^\circ C$	Maximum operating & storage temp. range. $T_{OP} T_{STC}$
	@ 25°C	@ 100°C			
	μA	μA	Volts	μS	°C
SCAJ2 SCAJ4 SCAJ6	2.0	50	1.1	2.0	-55 to +150

¹ Measured on discrete devices prior to assembly

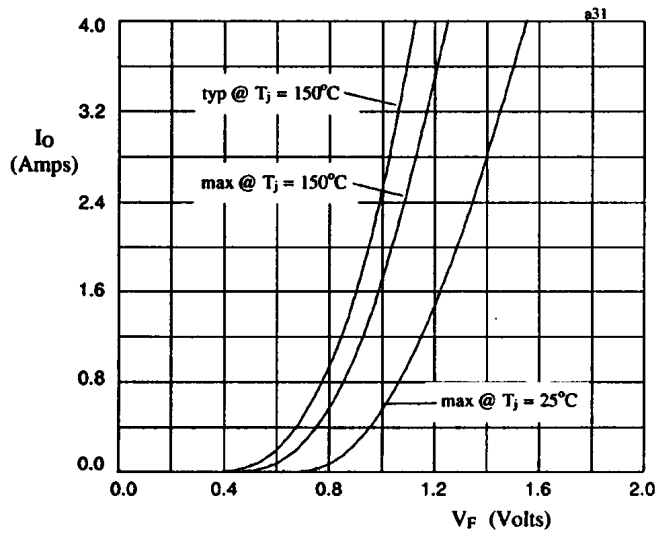


Fig 1. Forward voltage drop against output current per leg.

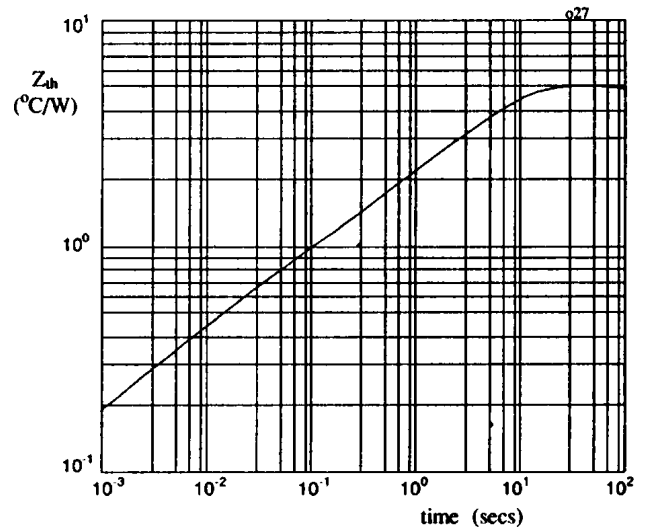


Fig 2. Transient thermal impedance characteristic per leg

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

