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# SEMTECH

## STANDARD RECOVERY 1 PHASE FULL WAVE BRIDGE RECTIFIERS

SCAJ2  
SCAJ4  
SCAJ6

January 16, 1998

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

### 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

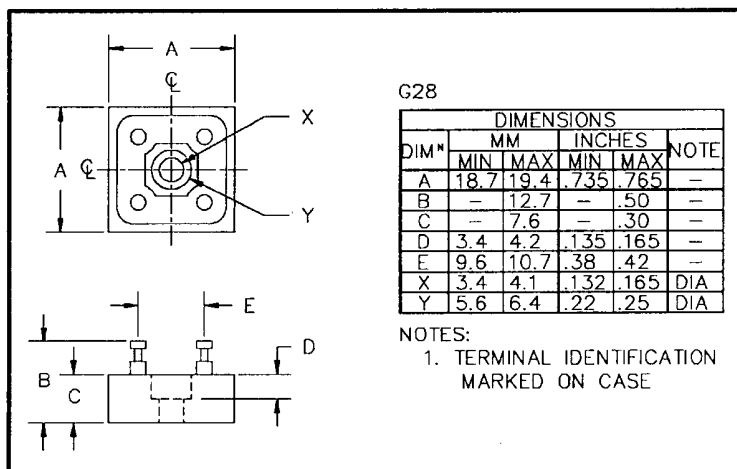
- $V_R = 200V - 600V$
- $I_F = 5.0A$
- $I_R = 2.0\mu A$
- $t_{rr} = 2.0\mu S$

### 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
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 <sup>1</sup> $t_{rr} @ 25^\circ C$	Maximum operating & storage temp. range. $T_{OP} T_{STG}$
	@ 25°C	@ 100°C			
	μA	μA	Volts	μS	°C
SCAJ2 SCAJ4 SCAJ6	2.0	50	1.1	2.0	-55 to +150

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

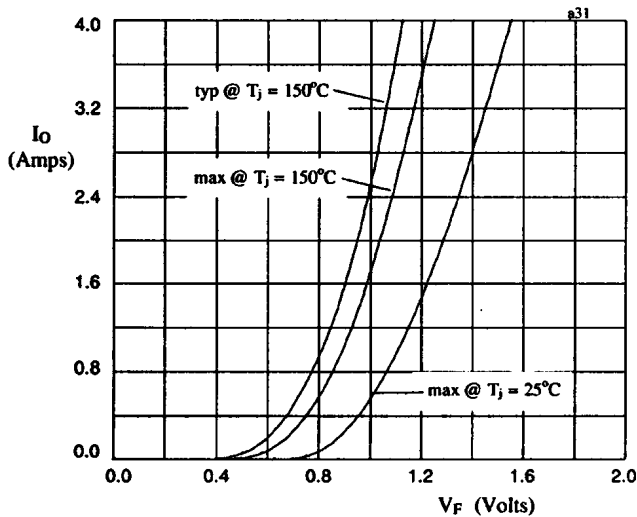


Fig 1. Forward voltage drop against output current per leg.

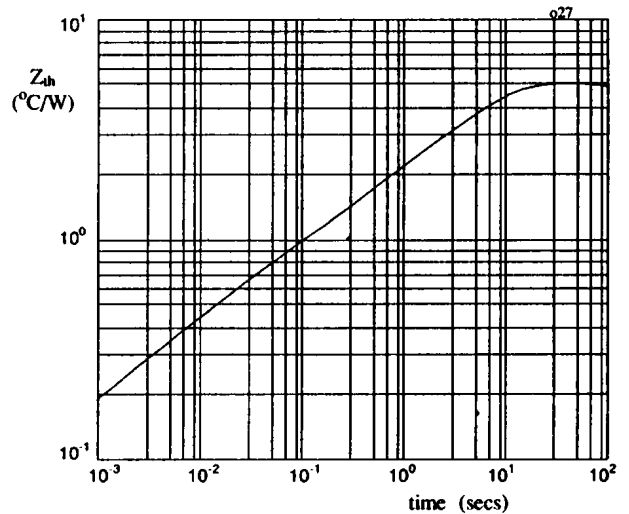


Fig 2. Transient thermal impedance characteristic per leg

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

