

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

**QUICK REFERENCE
DATA**

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

- $V_R = 50V - 150V$
- $I_F = 5A$
- $V_F = 1.2V$
- $t_{rr} = 30nS$

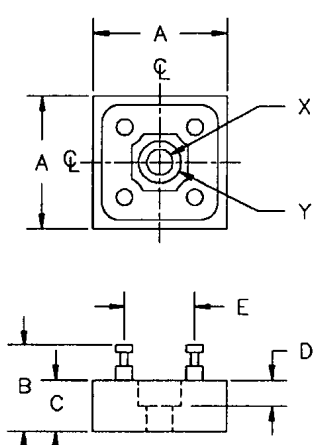
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ABSOLUTE MAXIMUM RATINGS

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	
SCAJ05FF	50									
SCAJ10FF	100	5.0	3.8	2.9	1.5	1.1	0.7	35	24	13
SCAJ15FF	150									

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

MECHANICAL



G28

DIM ^N	DIMENSIONS				NOTE
	MM		INCHES		
	MIN	MAX	MIN	MAX	
A	18.7	19.4	.735	.765	—
B	—	12.7	—	.50	—
C	—	7.6	—	.30	—
D	3.4	4.2	.135	.165	—
E	9.6	10.7	.38	.42	—
X	3.4	4.1	.132	.165	DIA
Y	5.6	6.4	.22	.25	DIA

NOTES:
1. TERMINAL IDENTIFICATION MARKED ON CASE

ELECTRICAL CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current $I_R @ V_{RWM}$		Maximum Forward Voltage $V_F @ 1.5A/leg$	Reverse Recovery Time ¹ $t_{rr} @ 25^\circ C$	Maximum operating & storage temp. range. $T_{OP} T_{STG}$
	@ 25°C	@ 100°C			
	μA	μA	Volts	nS	°C
SCAJ05FF SCAJ10FF SCAJ15FF	2.0	100	1.2	30	-55 to +150

¹ Measured on discrete devices prior to assembly

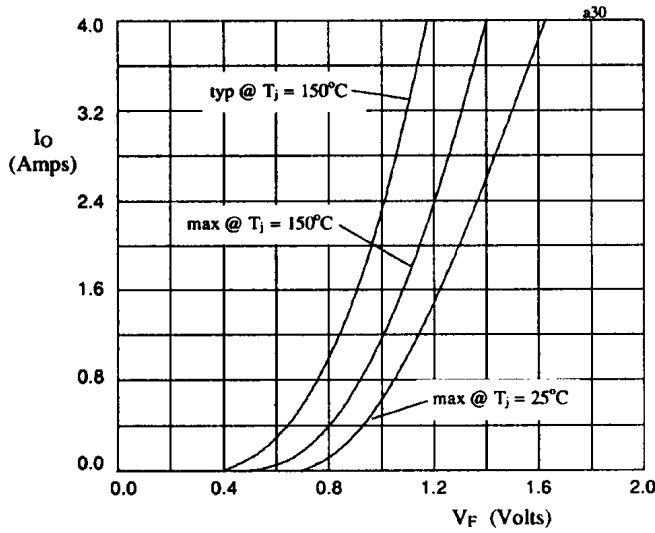


Fig 1. Forward voltage drop against output current per leg.

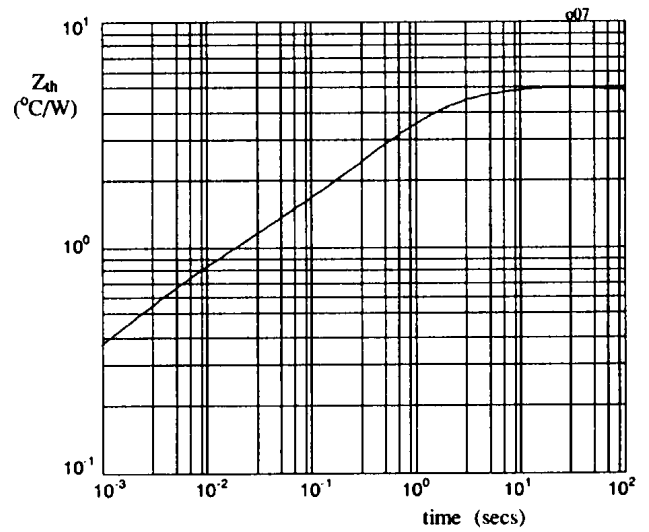


Fig 2. Transient thermal impedance characteristic per leg

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

