SUPERFAST RECOVERY 1 PHASE FULL WAVE BRIDGE RECTIFIERS

SCAJ05FF SCAJ10FF SCAJ15FF

January 16, 1998

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

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

QUICK REFERENCE DATA

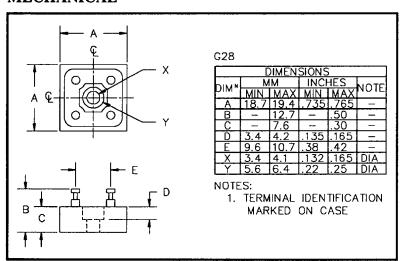
- $V_R = 50V 150V$
- $I_F = 5A$
- $V_F = 1.2V$
- $t_{rr} = 30nS$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V _{RWM}	Average Rectifie			ed Current I _{F(AV)} (@ ambient temperature)			1 Cycle Surge Current I _{FSM} t _p = 8.3mS		Repetitive Surge Current I _{FRM}
		@ 55°C	@ 100°C	@ 125°C	@ 25°C	@ 55°C	@ 100°C	@ 25°C	@ 100°C	@ 25℃
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SCAJ05FF SCAJ10FF SCAJ15FF	50 100 150	5.0	3.8	2.9	1.5	1.1	0.7	35	24	13

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

MECHANICAL

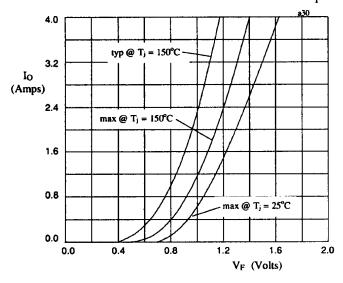


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ELECTRICAL CHARACTERISTICS

Device	Leakage	n Reverse Current V _{RWM}	Maximum Forward Voltage	Reverse Recovery Time ¹	Maximum operating & storage temp. range.	
Туре	@ 25 ℃	@ 100°C	V _F @ 1.5A/leg	t _{rr} @ 25°C		
	μΑ	μА	Volts	nS	°C	
SCAJ05FF SCAJ10FF SCAJ15FF	2.0	100	1.2	30	-55 to +150	

¹ Measured on discrete devices prior to assembly



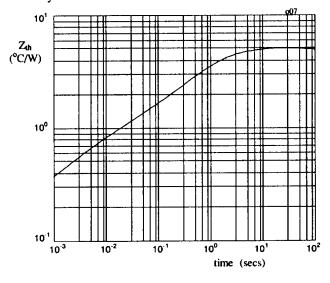


Fig 1. Forward voltage drop against output current per leg.

Fig 2. Transient thermal impedance characteristic per leg

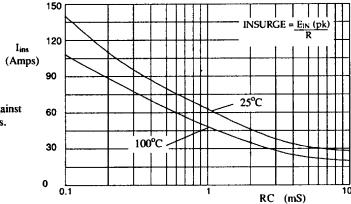


Fig 3. Maximum insurge current against time constant for capacitive loads.

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