

FAST RECOVERY 1 PHASE FULL WAVE BRIDGE RECTIFIERS

SCAJ05F SCAJ1F SCAJ2F SCAJ4F SCAJ6F

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FAST RECOVERY, LOW 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

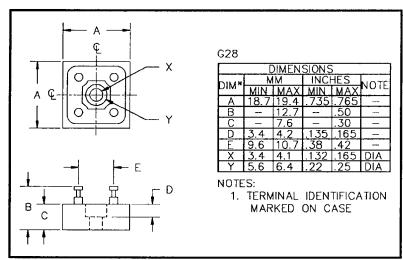
- $V_R = 50V 600V$
- $I_F = 4.5A$
- $I_R = 2.0 \mu A$
- $t_{rr} = 150 250 nS$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V _{RWM}	Average Rectified Current I _{F(AV)} (@ case temperature) (@ ambient temperature)						1 Cycle Surge Current I _{FSM} t _p = 8.3mS	
		@ 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
SCAJ05F SCAJ1F SCAJ2F SCAJ4F SCAJ6F	50 100 200 400 600	4. 5	3.0	2.0	1.5	1.0	0.7	25	15

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

MECHANICAL



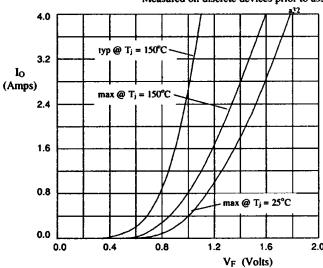
SCAJ4F is available in Europe to DEF STAN 59-61/90/207 release to F and FX levels.

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ELECTRICAL CHARACTERISTICS

Device Type	Leakage	n Reverse Current V _{RWM}	Maximum Forward Voltage	Reverse Recovery Time ¹	Maximum operating & storage temp. range.	
	@ 25°C @ 100°C		V _F @ 1A/leg	t₁ @ 25°C	TOP TSTG	
	μΑ μΑ		Volts	nS	°C	
SCAJ05F SCAJ1F SCAJ2F SCAJ4F SCAJ6F	2.0	50	1.2	150 150 150 150 250	-55 to +150	

¹ Measured on discrete devices prior to assembly



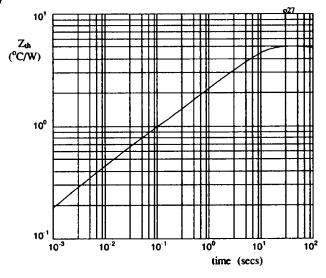


Fig 1. Forward voltage drop against output current per leg.

Fig 2. Transient thermal impedance characteristic per leg

