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SEMTECH

**SUPERFAST RECOVERY 1 PHASE
 FULL WAVE BRIDGE RECTIFIERS**

**SCAS05FF
 SCAS10FF
 SCAS15FF**

January 16, 1998

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

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

**QUICK REFERENCE
 DATA**

- Low forward voltage drop
- Low reverse leakage current
- Very fast reverse recovery time
- Low thermal impedance
- High forward and surge current ratings

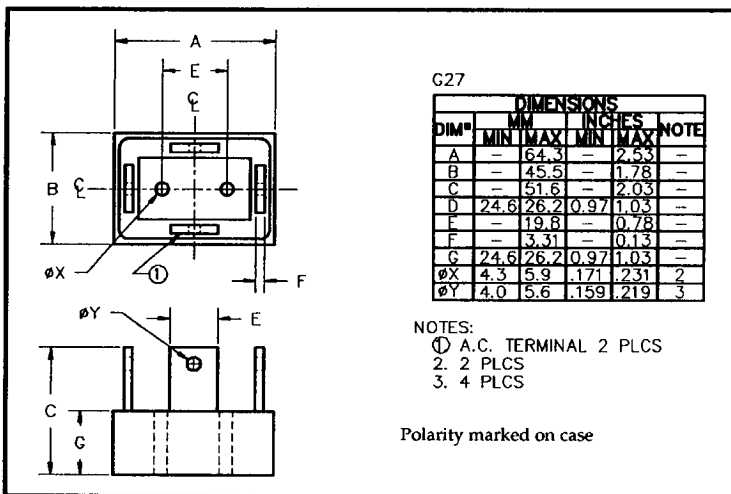
- $V_R = 50V - 150V$
- $I_F = 70A$
- $V_F = 0.97V$
- $t_{rr} = 30nS$

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			@ 25°C
Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	
SCAS05FF	50									
SCAS10FF	100	70	48	35	18	12.5	8.0	900	750	125
SCAS15FF	150									

$R_{\theta JC} = 0.4^{\circ}C/W$

MECHANICAL



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ELECTRICAL CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current I_R @ V_{RWM}		Maximum Forward Voltage V_F @ 30A/leg	Reverse Recovery Time t_{rr} @ 25°C	Maximum operating & storage temp. range. T_{OP} T_{STG}
	@ 25°C	@ 100°C			
	μA	mA	Volts	nS	°C
SCAS05FF SCAS10FF SCAS15FF	120	6.0	0.97	30	-55 to +150

¹ Measured on discrete devices prior to assembly

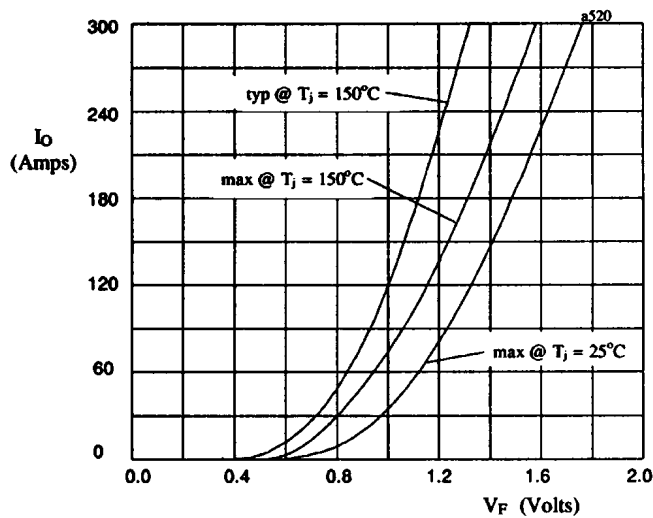


Fig 1. Forward voltage drop against output current per leg.

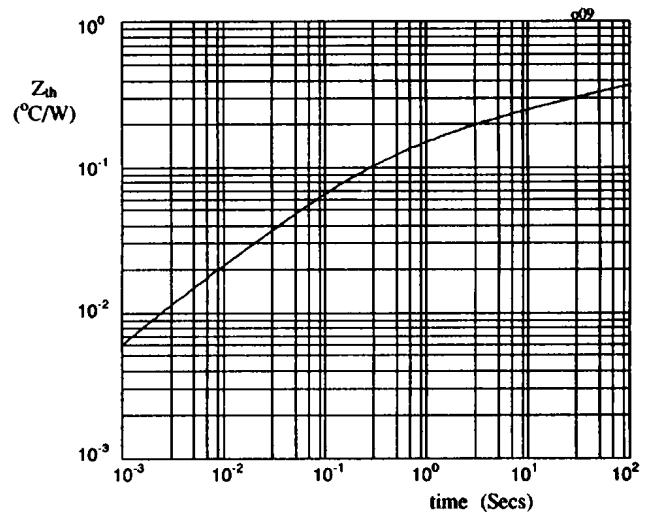


Fig 2. Transient thermal impedance characteristic per leg