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SEMTECH

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

**SCBAR05F SCBAR1F
SCBAR2F SCBAR4F**

January 16, 1998

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

**FAST RECOVERY, HIGH 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**

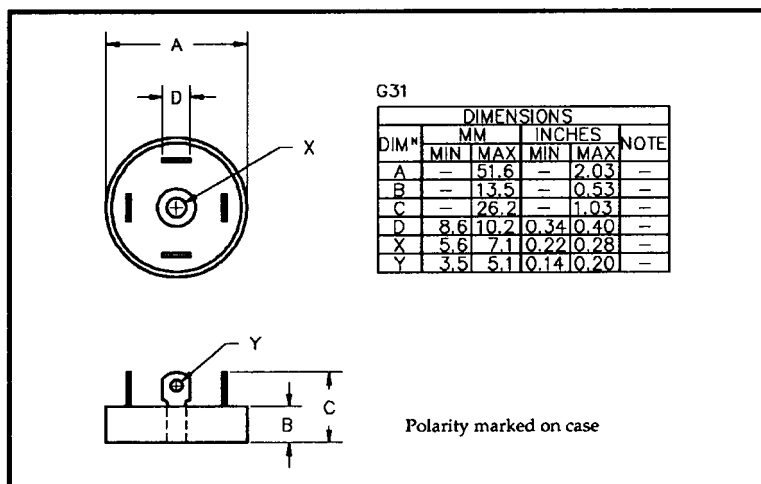
- $V_R = 50V - 400V$
- $I_F = 50A$
- $I_R = 6.0\mu A$
- $t_{rr} = 150nS$

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)}$						1 Cycle Surge Current	
		(@ case temperature)			(@ ambient temperature)			$I_{FSM} t_p = 8.3mS$	
		@ 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	
SCBAR05F	50								
SCBAR1F	100								
SCBAR2F	200	50	31	20	9.0	6.7	4.3	375	240
SCBAR4F	400								

$R_{\theta JC} = 0.7^\circ C/W$

MECHANICAL



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ELECTRICAL CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current I_R @ V_{RWM}		Maximum Forward Voltage V_F @ 9A/leg	Reverse Recovery Time ¹ t_{rr} @ 25°C	Maximum operating & storage temp. range. T_{OP} T_{STG}
	@ 25°C	@ 100°C			
	μA	μA	Volts	nS	°C
SCBAR05F SCBAR1F SCBAR2F SCBAR4F	6.0	150	1.1	150	-55 to +150

¹ Measured on discrete devices prior to assembly

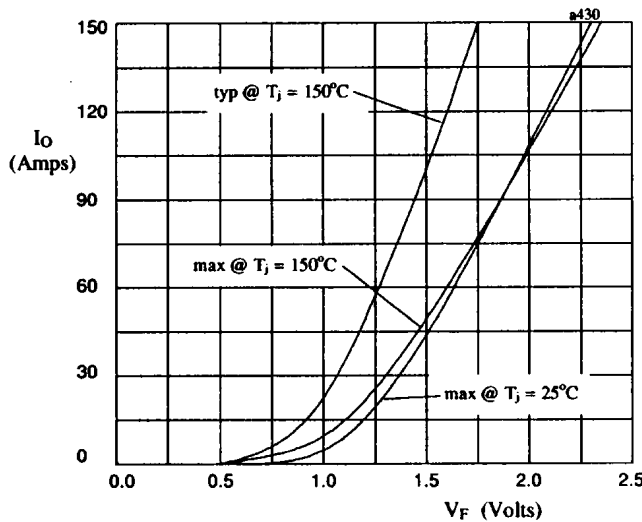


Fig 1. Forward voltage drop against output current per leg.

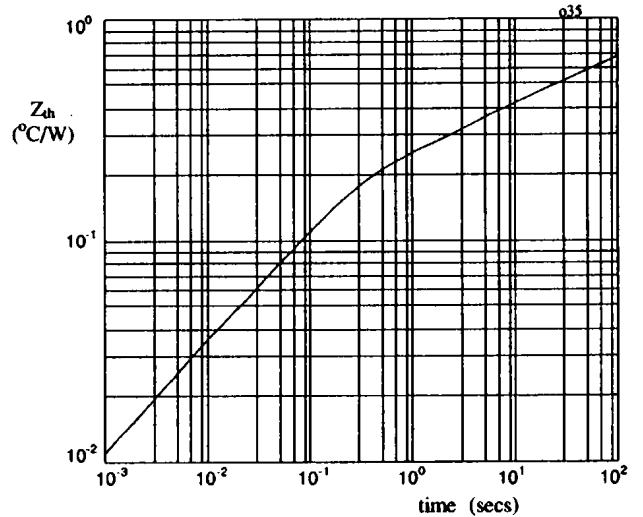


Fig 2. Transient thermal impedance characteristic per leg