

January 16, 1998

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

STANDARD RECOVERY, MEDIUM CURRENT 1-PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLIES

• Low forward voltage drop

- Low reverse leakage current
- Aluminum case
- Low thermal impedance
- Insulated electrical connections

QUICK REFERENCE DATA

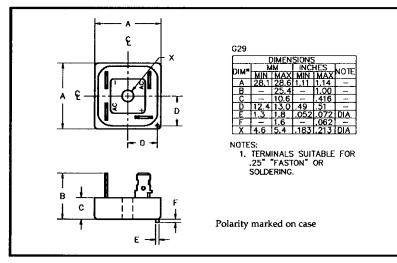
- V_R = 200V 600V
- I_F = 25A
- I_R = 2.0µA
- t_{rr} = 2.0μS

Device Type	Working Reverse Voltage VRWM	Average Rectified Current IF(AV)						1 Cycle Surge Current	
		(@ case temperature)			(@ ambient temperature)			I_{FSM} $t_p = 8.3 mS$	
		@ 55°C	@ 100°C	@ 125°C	@ 25°C	@ 55°C	@ 100°C	@ 25⁰C	@ 100ºC
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SCBA2 SCBA4 SCBA6	200 400 600	25	18.5	12.5	6.0	5.0	3.0	150	100

ABSOLUTE MAXIMUM RATINGS

 $R_{\theta JC} = 2.0^{\circ}C/W$

MECHANICAL



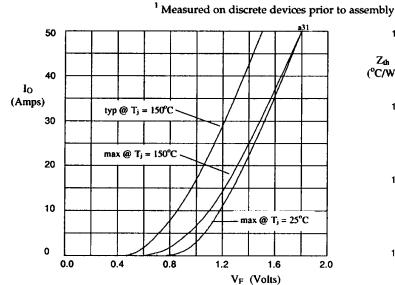
SCBA6 is available in Europe to DEF STAN 59-61/90/207 release to F and FX levels.

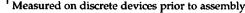


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Device Type	Leakage	n Reverse Current V _{RWM}	Maximum Forward Voltage	Reverse Recovery Time ¹	Maximum operating & storage	
	@ 25°C @ 100°C		V _F @3A/leg	trr @ 25°C	temp. range. Tor Tsrg	
	μA	μA	Volts	μS	°C	
SCBA2 SCBA4 SCBA6	2.0	40	1.0	2.0	-55 to +150	

ELECTRICAL CHARACTERISTICS





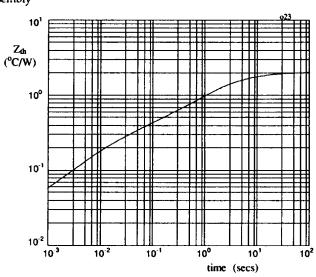


Fig 1. Forward voltage drop against output current per leg.



