

January 16, 1998

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

FAST RECOVERY, LOW CURRENT 3-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

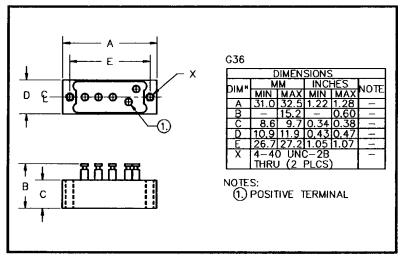
- $V_R = 50V 600V$
- IF = 5.0A
- I_R = 3.0 μA
- t_{rr} = 150 250nS

ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage V _{RWM}	Average Rectified Current IF(AV)						1 Cycle Surge Current	
		@ case temperature			@ ambient temperature			I_{FSM} @ $t_p = 8.3mS$	
		@ 55°C	@ 100°C	@ 125°C	@ 25°C	@ 55℃	@ 100°C	@ 25°C	@ 100°C
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SC3BJ05F	50								
SC3BJ1F	100								
SC3BJ2F	200	5.0	3.5	2.5	1.5	1.0	0.7	25	15
SC3BJ4F	400								
SC3BJ6F	600								

 $R_{\theta JC} = 6.0^{\circ}C/W$

MECHANICAL



SC3BJ4F is available in Europe to DEF STAN 59-61/90/208 release to F and FX levels.

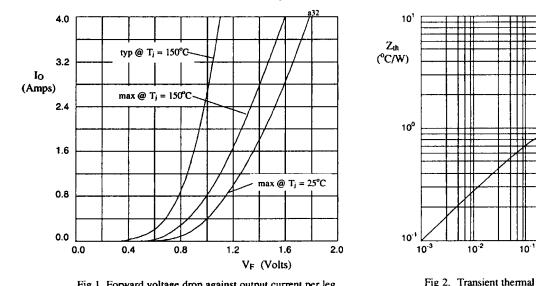


SC3BJ05F SC3BJ1F SC3BJ2F SC3BJ4F SC3BJ6F

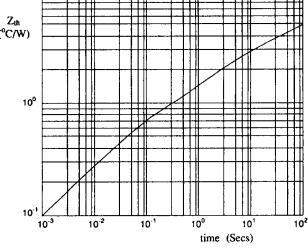
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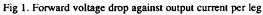
ELECTRICAL CHARACTERISTICS

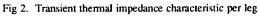
Device Type		kage Current V _{RWM} @ 100°C	Maximum Forward Voltage V _F @ 1A/leg @ 25°C	Maximum Reverse Recovery Time t _{rr} @ 25°C	Maximum operating & storage temp range. Top Tsrc			
	μΑ	μΑ	Volts	nS	°C			
SC3BJ05F				150				
SC3BJ1F				150	-55			
SC3BJ2F	3.0	75	1.2	150	to			
SC3BJ4F				150	+150			
SC3BJ6F				250				
¹ Measured on discrete devices prior to assembly								

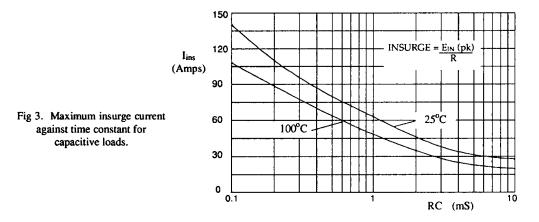


Measured on discrete devices prior to assembly









Mouser Electronics

Authorized Distributor

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Semtech: SC3BJ2F