



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





May 16, 2012

www.semtech.com

**FAST RECOVERY, LOW CURRENT 3-PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLIES**

- Low forward voltage drop
- Low reverse leakage current
- Subminiature design
- $V_{RWM}$  up to 2500V
- PCB mounting

**QUICK REFERENCE DATA**

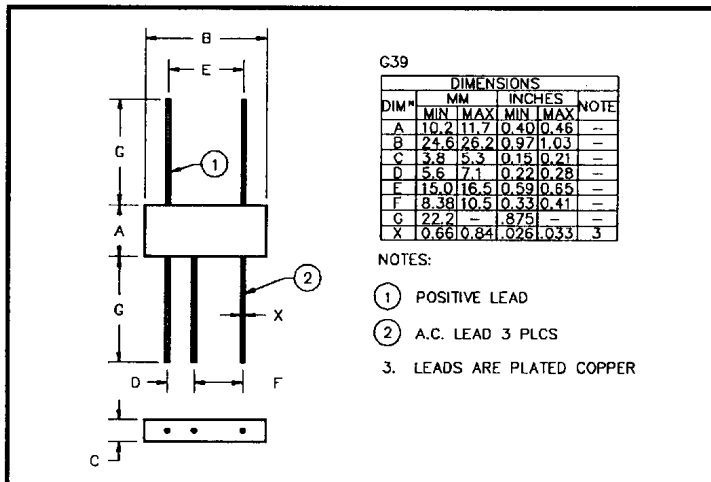
- $V_R = 50V - 2500V$
- $I_F = 0.5 - 2.0A$
- $I_R = 3.0\mu A$
- $t_{rr} = 150 - 300nS$

**ABSOLUTE MAXIMUM RATINGS & CHARACTERISTICS**

Device Type	Working Reverse Voltage $V_{RWM}$	Average Rectified Current $I_{F(AV)}$	
		@ 55 °C	@ 100 °C
	Volts	Amps	Amps
S3BR05F	50	2.0	1.2
S3BR1F	100	2.0	1.2
S3BR2F	200	2.0	1.2
S3BR4F	400	2.0	1.2
S3BR6F	600	2.0	1.2
S3BR25F	2500	0.5	0.3

Reverse Leakage Current $I_R @ V_{RWM}$		Forward Voltage drop / leg $V_F @ 1A$ * @ 100mA	Reverse Recovery Time $t_{rr}$ @ 25°C
@ 25 °C	@ 100 °C		
$\mu A$	$\mu A$	Volts	nS
3.0	75	1.2	150
3.0	75	1.2	150
3.0	75	1.2	150
3.0	75	1.2	150
3.0	75	1.2	250
3.0	75	* 5.0	300

**MECHANICAL**



<sup>1</sup> Measured on discrete devices prior to assembly

S3BR4F is available in Europe to DEF-STAN 59-61/90/214

May 16, 2012

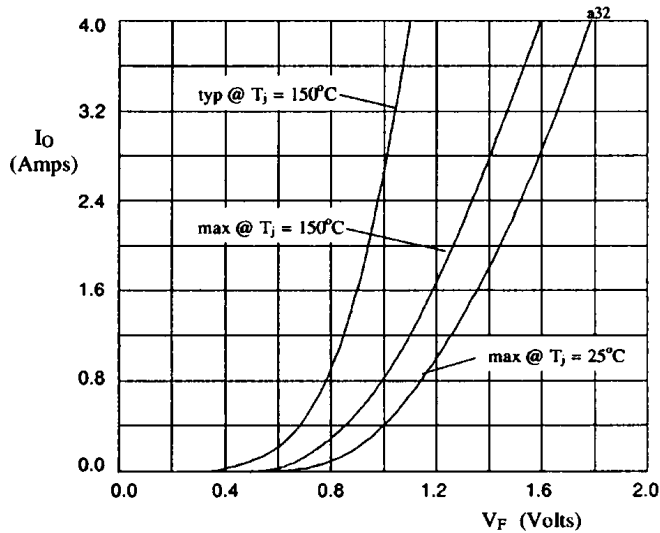


Fig 1. Forward voltage drop against output current per leg for S3BR05F thru S3BR6F.

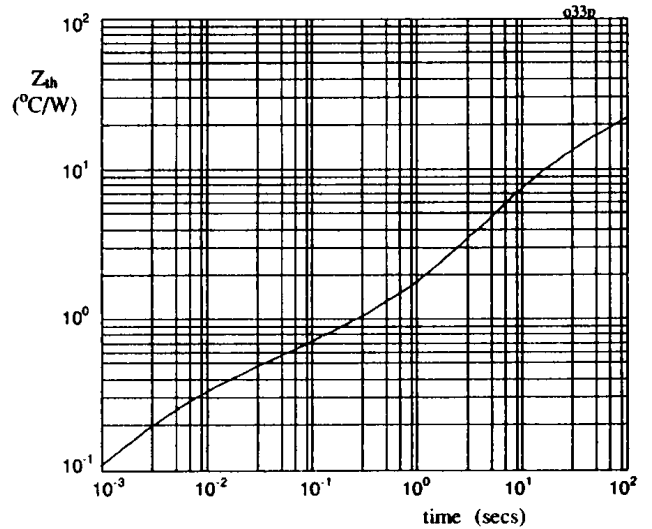


Fig 2. Transient thermal impedance characteristic per leg for S3BR05F thru S3BR6F

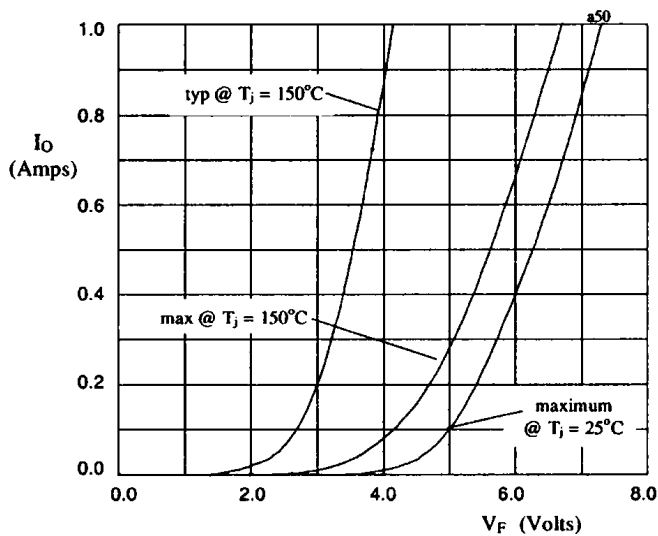


Fig 3. Forward voltage drop against output current per leg for S3BR25F.

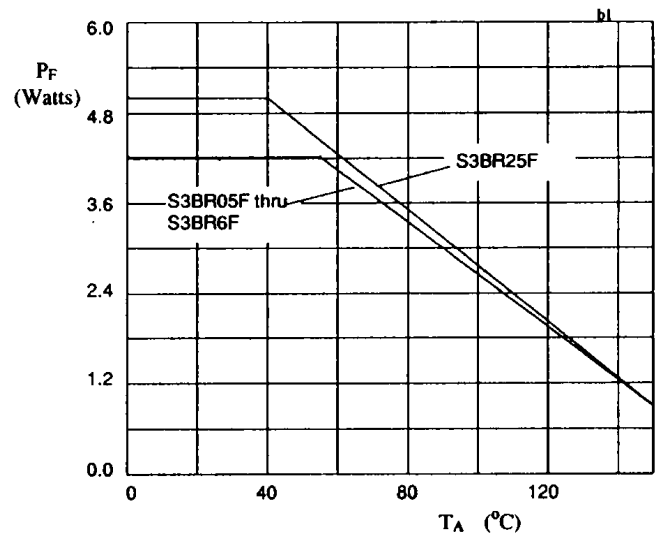


Fig 4. Power derating characteristics when p.c.b mounted