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January 16, 1998

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STANDARD RECOVERY, PCB MOUNTING 3-PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLIES

- Low forward voltage drop
- Low reverse leakage current
- Subminiature design
- V_{RWM} up to 3000V

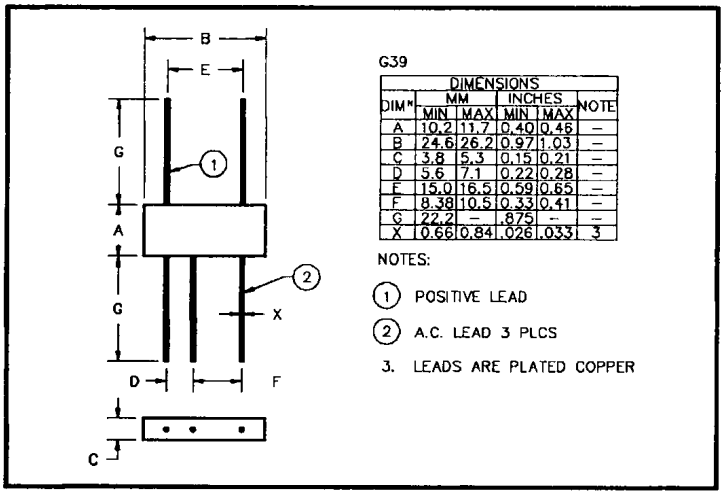
QUICK REFERENCE DATA

- V_R = 50V - 3000V
- I_F = 0.5 - 2.0A
- I_R = 3.0µA
- t_{rr} = 2.0 - 2.5µS

ABSOLUTE MAXIMUM RATINGS & CHARACTERISTICS

Device Type	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)}$		Reverse Leakage Current I_R @ V_{RWM}		Forward Voltage drop / leg @ 25°C V_F @ 1A * @ 250mA	Reverse Recovery Time [1] t_{rr}
		@ 55 °C	@ 100 °C	@ 25 °C	@ 100 °C		@ 25°C
	Volts	Amps	Amps	µA	µA	Volts	µS
S3BR05	50	2.0	1.2	3.0	75	1.1	2.0
S3BR1	100	2.0	1.2	3.0	75	1.1	
S3BR2	200	2.0	1.2	3.0	75	1.1	
S3BR4	400	2.0	1.2	3.0	75	1.1	
S3BR6	600	2.0	1.2	3.0	75	1.1	
S3BR8	800	2.0	1.2	3.0	75	1.1	
S3BR10	1000	2.0	1.2	3.0	75	1.1	
S3BR15	1500	0.5	0.3	3.0	60	* 5.0	2.5
S3BR20	2000	0.5	0.3	3.0	60	* 5.0	
S3BR25	2500	0.5	0.3	3.0	60	* 5.0	
S3BR30	3000	0.5	0.3	3.0	60	* 5.0	

MECHANICAL



G39

DIM*	DIMENSIONS MM MIN	MM MAX	INCHES MIN	INCHES MAX	NOTE
A	10.2	11.7	0.40	0.46	–
B	24.6	26.2	0.97	1.03	–
C	3.8	5.3	0.15	0.21	–
D	5.6	7.1	0.22	0.28	–
E	15.0	16.5	0.59	0.65	–
F	8.38	10.5	0.33	0.41	–
G	22.2	–	.875	–	–
X	0.66	0.84	.026	.033	3

NOTES:

(1) POSITIVE LEAD

(2) A.C. LEAD 3 PLCS

3. LEADS ARE PLATED COPPER

[1] Measured on discrete devices prior to assembly

S3BR10 and S3BR30 are available in Europe to DEF STAN 59-61/90/208 release to F and FX levels.

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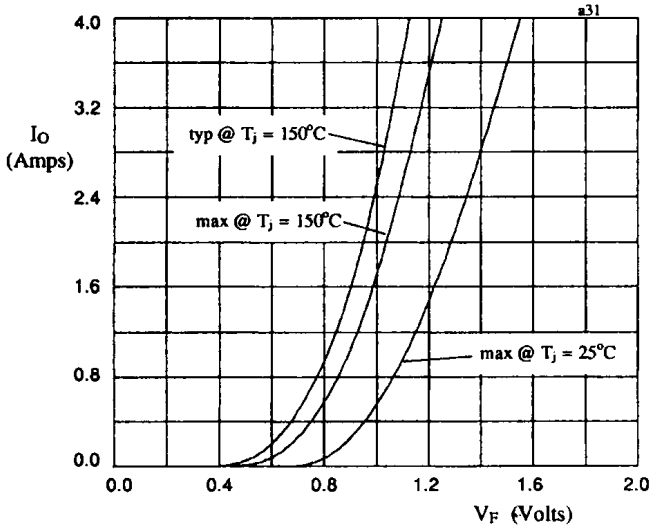

Fig 1. Forward voltage drop against output current per leg for S3BR05 thru S3BR10.

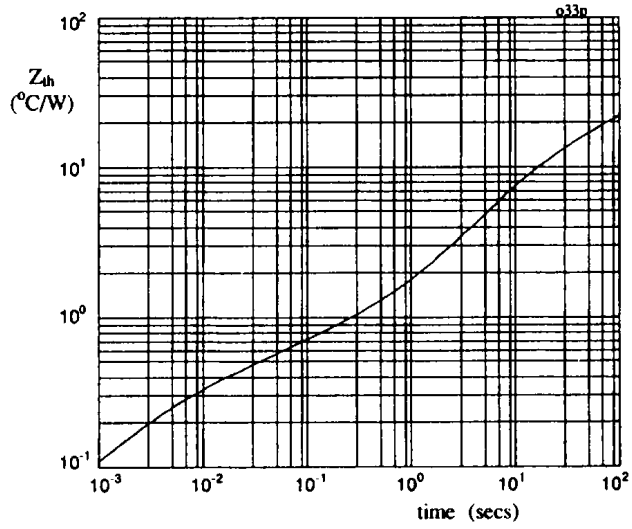

Fig 2. Transient thermal impedance characteristic per leg for S3BR05 thru S3BR10

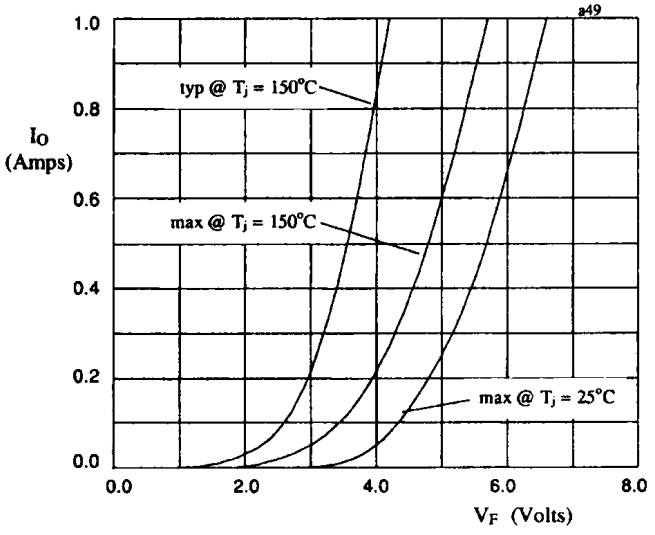

Fig 3. Forward voltage drop against output current per leg for S3BR15 thru S3BR30

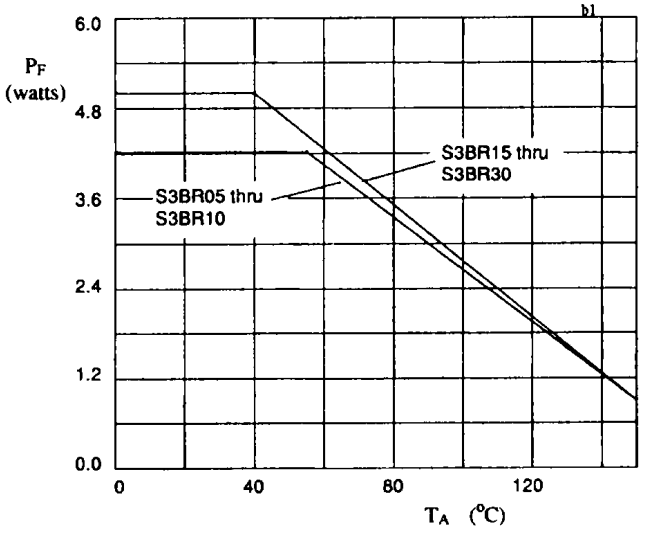

Fig 4. Power derating characteristics when p.c.b mounted