

January 16, 1998

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

**FAST RECOVERY, PCB MOUNTING, 1-PHASE FULL
WAVE BRIDGE RECTIFIER ASSEMBLIES**

- Low forward voltage drop
- Low reverse leakage current
- Subminiature design
- Three lead configurations
- Fast reverse recovery time

**QUICK REFERENCE
DATA**

- $V_R = 50V - 400V$
- $I_F = 3.0A$
- $I_R = 2.0 \mu A$
- $t_{rr} = 150nS$

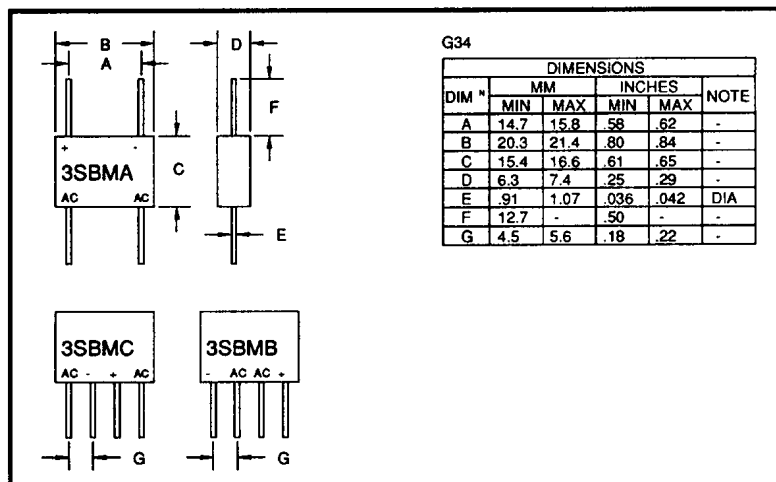
ABSOLUTE MAXIMUM RATINGS & CHARACTERISTICS

Device Type	Working Reverse Voltage V _{RWM}	Average Rectified Current I _{F(AV)}		1 Cycle Surge Current I _{FSM} t _p = 8.3mS	Repetitive Surge Current I _{FRM}	Reverse Leakage Current I _R @ V _{RWM}		Forward Voltage drop V _F @ 3A/leg @ 25°C	Reverse Recovery Time t _{rr}
		@ 55°C	@ 100°C	@ 25°C	@ 25°C	@ 25°C	@ 100°C		@ 25°C
	Volts	Amps	Amps	Amps	Amps	µA	µA	Volts	nS
3SBM*05F	50	3.0	1.5	150	25	2.0	40	1.1	150
3SBM*1F	100	3.0	1.5	150	25	2.0	40	1.1	150
3SBM*2F	200	3.0	1.5	150	25	2.0	40	1.1	150
3SBM*4F	400	3.0	1.5	150	25	2.0	40	1.1	150

* Add A, B, C for desired circuit configuration
(see Mechanical outline)

¹ Measured on discrete devices prior to assembly

MECHANICAL



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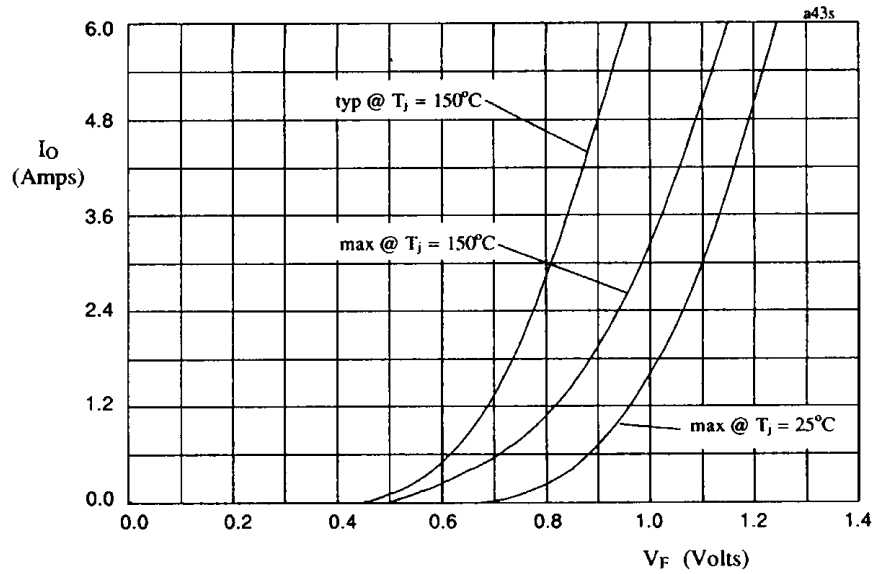


Fig 1. Forward voltage drop against output current per leg

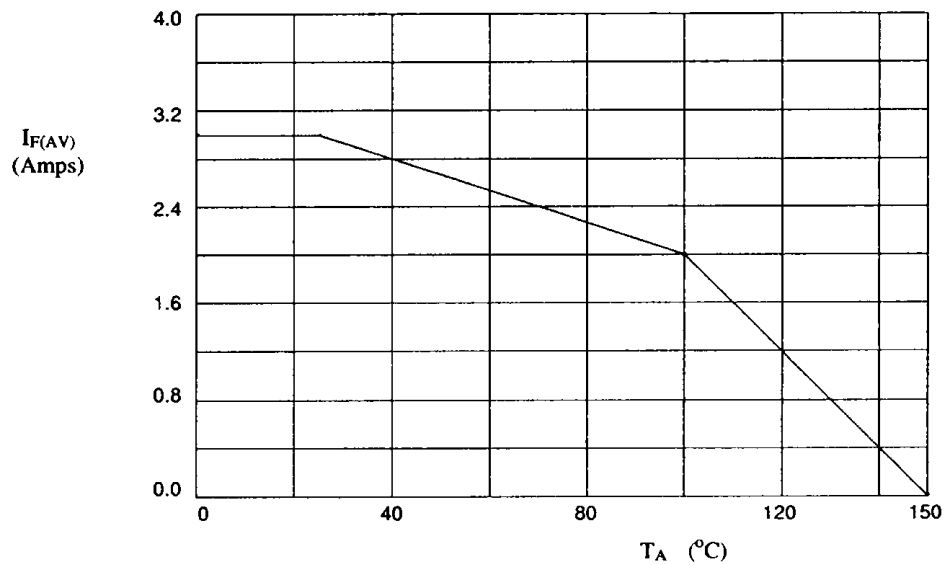


Fig 2. Maximum average forward current against ambient temperature.