

January 16, 1998

TEL:805-498-2111 FAX:805-498-3804 WEB:<http://www.semtech.com>**STANDARD RECOVERY, PCB MOUNTING, 1-PHASE  
FULL WAVE BRIDGE RECTIFIER ASSEMBLIES**

- Low forward voltage drop
- Low reverse leakage current
- Subminiature design
- Three lead configurations
- Pcb mounting

**QUICK REFERENCE  
DATA**

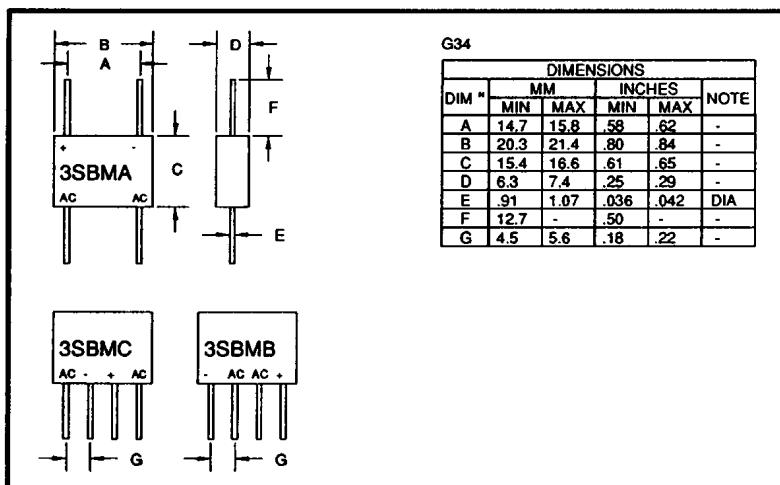
- $V_R = 200V - 1000V$
- $I_F = 3.0A$
- $I_R = 2.0 \mu A$
- $t_{rr} = 2.0\mu S$

**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 $V_F @ 3A/leg$ $@ 25^\circ C$	Reverse Recovery Time $t_{rr}$ $@ 25^\circ C$
		$@ 55^\circ C$	$@ 100^\circ C$			$@ 25^\circ C$	$@ 25^\circ C$		
		Volts	Amps	Amps	Amps	Amps	$\mu A$	Volts	$\mu S$
3SBM*2	200	3.0	1.5	150	25	2.0	40	1.0	
3SBM*4	400	3.0	1.5	150	25	2.0	40	1.0	
3SBM*6	600	3.0	1.5	150	25	2.0	40	1.0	
3SBM*8	800	3.0	1.5	150	25	2.0	40	1.0	
3SBM*0	1000	3.0	1.5	150	25	2.0	40	1.0	2.0

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

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

**MECHANICAL**

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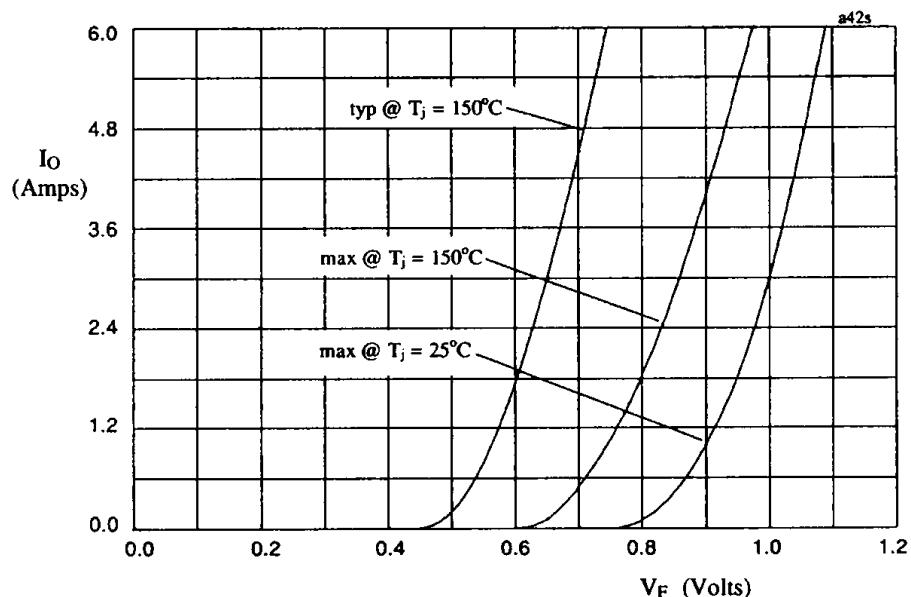
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Fig 1. Forward voltage drop against output current per leg

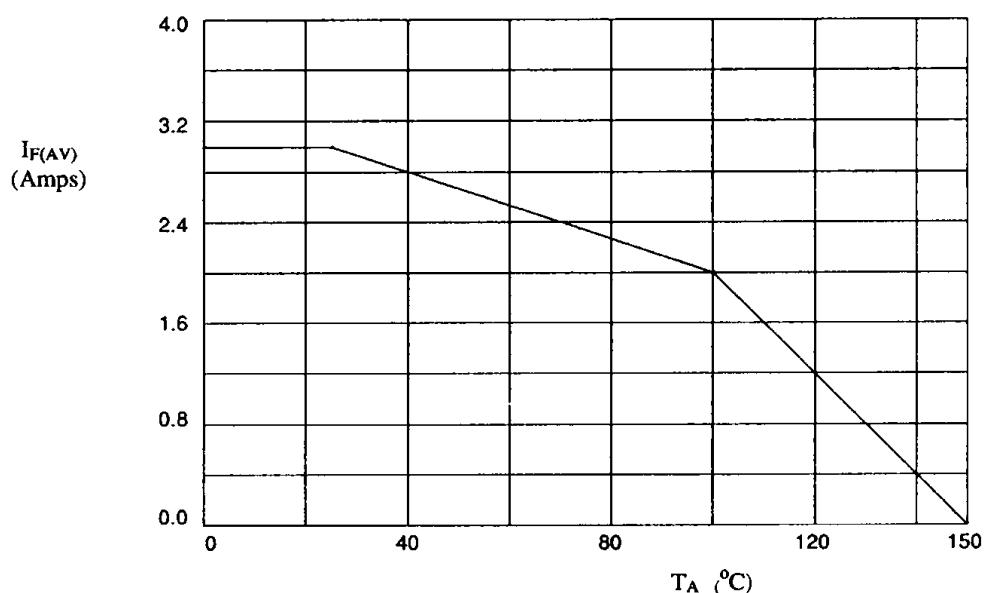


Fig 2. Maximum average forward current against ambient temperature.