

January 16, 1998

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

### STANDARD RECOVERY, 25A, 3-PHASE FULL WAVE BRIDGE RECTIFIER ASSEMBLIES

- Designed to MIL-S-19500/483
- Low forward voltage drop
- Low reverse leakage current
- Black anodised, aluminum case
- Low thermal impedance

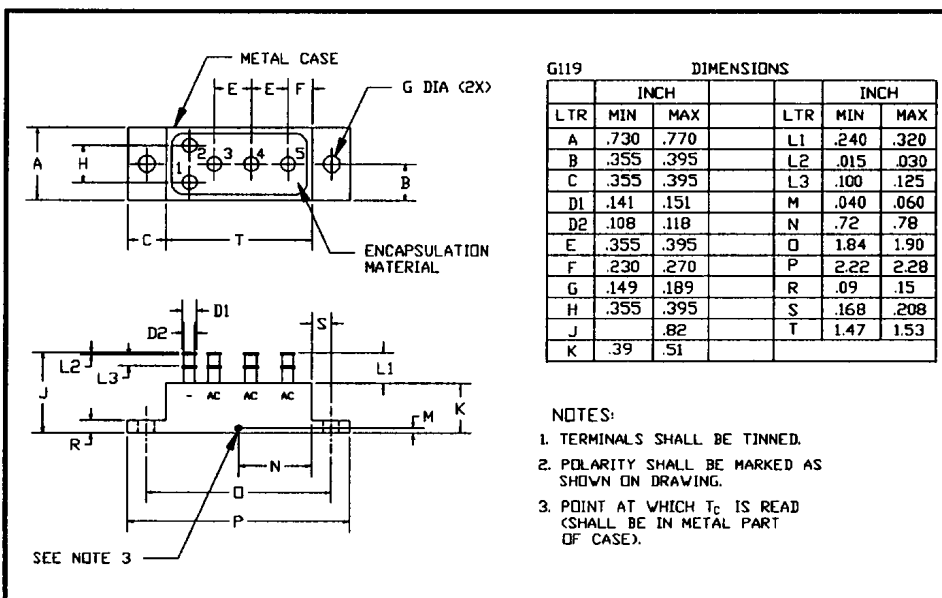
### QUICK REFERENCE DATA

- $V_R = 200V - 600V$
- $I_F = 25A$
- $V_F = 1.3V$
- $t_{rr} = 2.0\mu S$

### ABSOLUTE MAXIMUM RATINGS

Device Type	Working Reverse Voltage $V_{RWM}$	Average Rectified Current $I_{F(AV)}$						1 Cycle Surge Current	
		@ case temperature			@ ambient temperature			$I_{FSM}$ @ $t_p = 8.3mS$	
		@ 55°C	@ 100°C	@ 125°C	@ 25°C	@ 55°C	@ 100°C	@ 25°C	@ 100°C
Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	
SC3B483-01	200								
SC3B483-02	400	25	18.5	9.25	8	6	4	150	100
SC3B483-03	600								

### MECHANICAL



These products are qualified to MIL-S-19500/483 and are preferred parts as listed in MIL-STD-701.

They can be supplied fully released in JANTX versions as

M19500/483-01  
M19500/483-02  
M19500/483-03

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### ELECTRICAL CHARACTERISTICS

Device Type	Maximum Reverse Leakage Current $I_R @ V_{RWM}$		Maximum Forward Voltage $V_F @ 39A/leg @ 25^\circ C$	Maximum Reverse Recovery Time $t_{rr} @ 25^\circ C$	Maximum operating & storage temp range.	
	@ 25°C	@ 100°C			$T_{OP}$	$T_{STC}$
	$\mu A$	$\mu A$	Volts	$\mu S$	°C	
SC3B483-01	2.0	200	1.3	2.0	- 65 to +150	
SC3B483-02						
SC3B483-03						

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

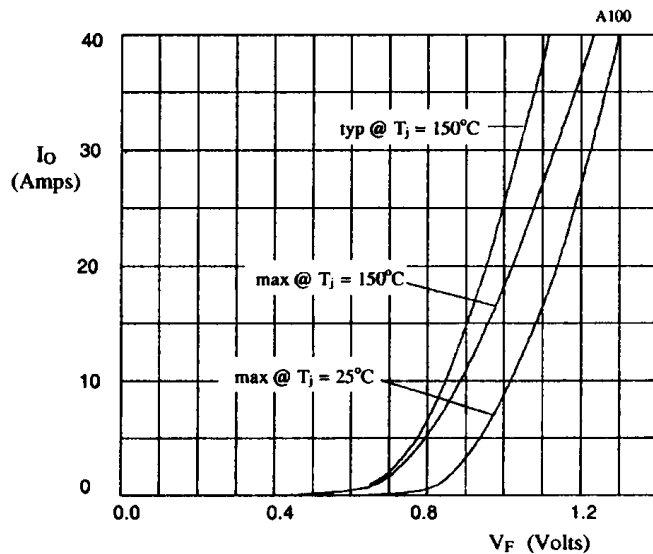


Fig 1. Forward voltage drop against output current per leg

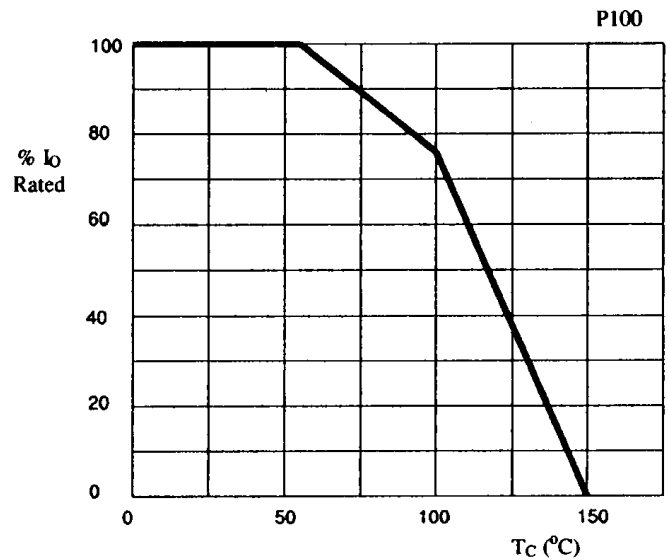


Fig 2. Output current derating curve