

### POWER DISCRETES

#### Description

Standard recovery 30A three phase full wave bridge rectifier.

#### Features

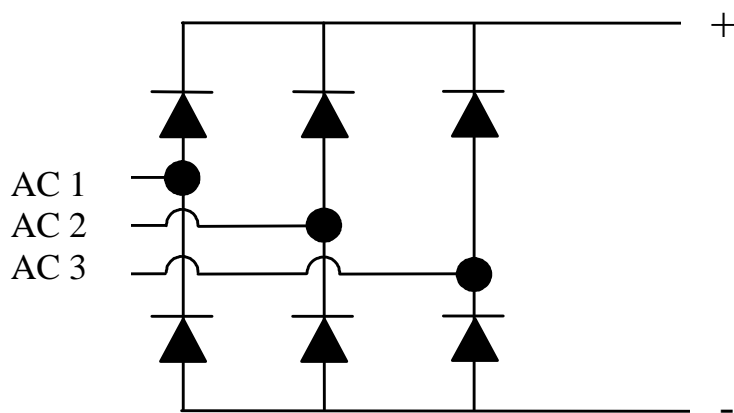
- ◆ Low forward voltage drop
- ◆ Low reverse leakage
- ◆ Black anodized aluminum case
- ◆ Low thermal resistance  $< 1.2^{\circ} \text{ C/W}$
- ◆ Hi-Rel. screened version is similar to Mil-PRF-19500/483
- ◆ To order Hi-Rel. version place HR in front of the product name

#### Applications

Conversion of 3-phase power to DC power where high power density and rugged design is required. Typical industries are:

- ◆ Aerospace
- ◆ Military
- ◆ High end industrial

#### Block Diagram



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### Absolute Maximum Ratings

Part Number	Working Reverse Voltage	Average Rectifier Current $I_{F(AV)}$						1 Cycle Surge Current $I_{FSM}$ @ $t_p = 8.3mS$	
		@ case temperature			@ ambient temperature			25 °C	100 °C
		55 °C	100 °C	125 °C	25 °C	55 °C	100 °C		
	Volts	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
SC6BA2	200	30	20	10	10	7	5	250	125
SC6BA4	400								
SC6BA6	600								
SC6BA8	800								

### Electrical Specifications

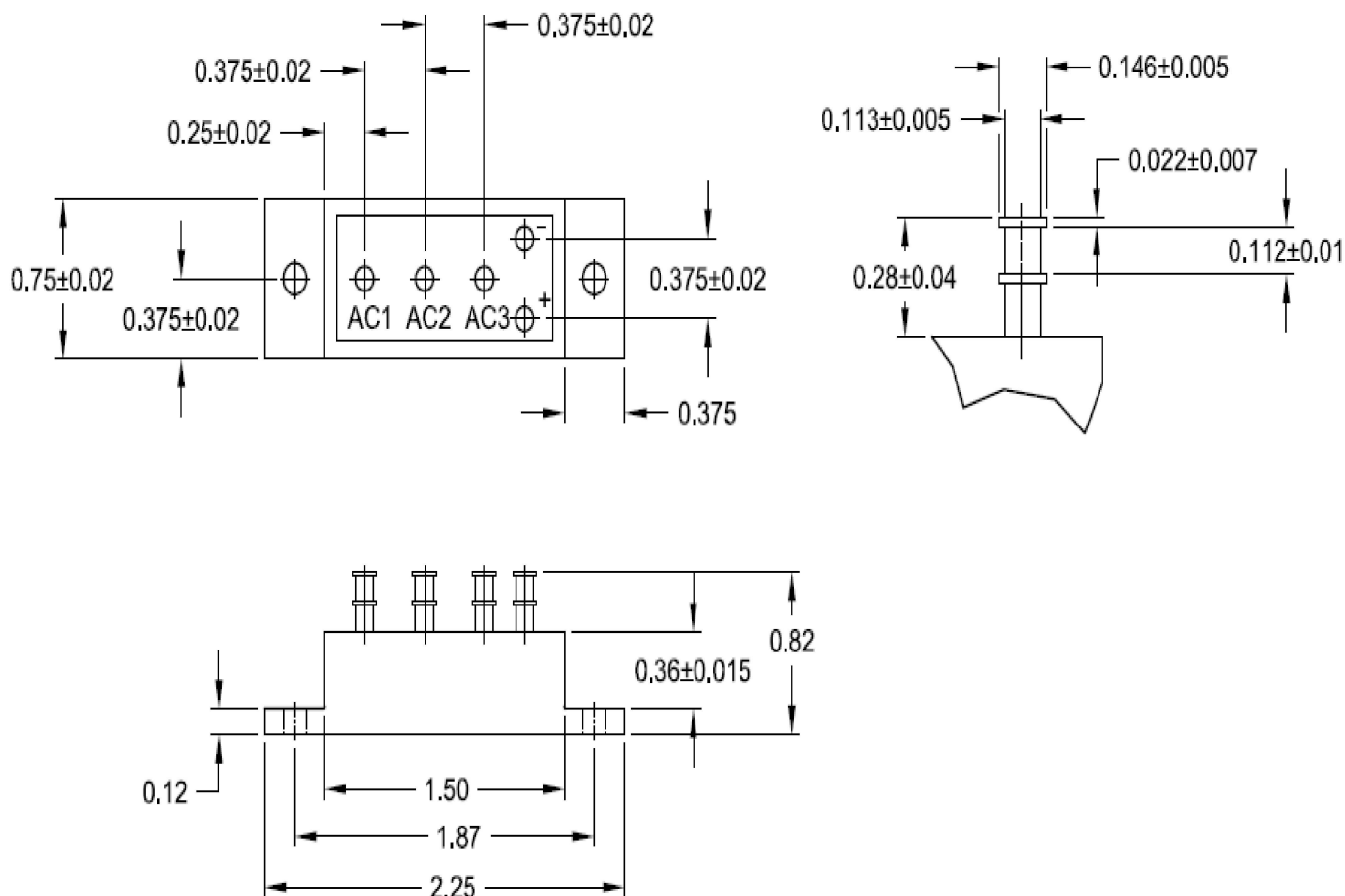
Part Number	Reverse Leakage Current I <sub>R</sub> @ V <sub>RWM</sub>		Maximum Forward Voltage V <sub>F</sub> @ 39A/leg @ 25 °	Maximum Reverse Recovery Time <sup>(1)</sup> T <sub>A</sub> @ 25 °C	Maximum Operational and Storage Temperatures T <sub>OP</sub> T <sub>STG</sub>
	@ 25 °C	@ 100 °C			
	µA	µA			
SC6BA2	1.0	100	1.3	2.0	-65 to +150
SC6BA4					
SC6BA6					
SC6BA8					
(1) Measured on discrete devices prior to assembly					

### Ordering Information

Part Number	Description
SC6BA2, SC6BA4, SC6BA6, SC6BA8 <sup>(1)</sup>	Standard Recovery 3-Phase full wave bridge rectifier assembly
HRSC6BA2, HRSC6BA4, HRSC6BA6, HRSC6BA8 <sup>(1)(2)</sup>	

Note:

- (1) Available in trays. Please consult factory for quantity.
- (2) Hi-Rel. screened version is similar to Mil-PRF-19500/483.

**POWER DISCRETES**
**Outline Drawing**


NOTE: Unless otherwise stated tolerance is  $\pm 0.03$ .  
(Dimensions are in inches)

**Contact Information**

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