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Micro Commercial Components

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Features

- Surge Overload Rating Of 300 Amps
- Low Leakage and Low Forward Voltage
- Any Mounting Position
- Silver Plated Copper Leads
- Case Material: Molded Plastic. UL Flammability
- Classification Rating 94V-0 and MSL Rating 1
 Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Junction Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

Microsemi	Device	Maximum Maximum		Maximum
Catalog	Marking	Recurrent RMS		DC
Number	manning	Peak Reverse Voltage		Blocking
		Voltage	i enage	Voltage
RS801	RS801	50V	35V	50V
RS802	RS802	100V	70V	100V
RS803	RS803	200V	140V	200V
RS804	RS804	400V	280V	400V
RS805	RS805	600V	420V	600V
RS806	RS806	800V	560V	800V
RS807	RS807	1000V	700V	1000v

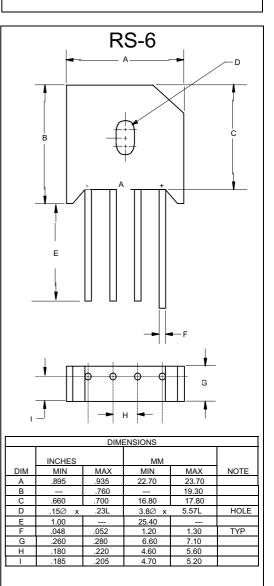
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	8.0A 6.0A	T _C = 90°C T _A = 45°C
Peak Forward Surge Current	I _{FSM}	300A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V _F	1.1V	I _{FM} = 4.0A; T _J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 1mA	T _J = 25°C T _J = 100°C
Typical Thermal Resistance Per Leg	T _{thJA} T _{thJC}	18°C/W 3.0°C/W	(Note 2) (Note 3)

RS801 THRU

RS807

8 Amp Single Phase Bridge Rectifier 50 to 1000 Volts



Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7. 2. Units mounted in free air, no heatsink, P.C.B 0.375"(9.5mm) lead length with

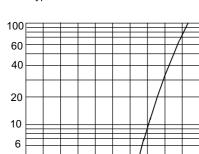
0.5×0.5"(12×12mm) copper pads. 2. Units mounted on a 3.0×3.0×0.11"(7.5×7.5×0.3cm) Al.Plate heatsink.

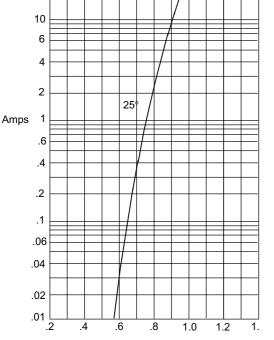
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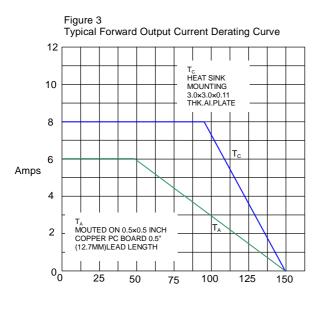
RS801 thru RS807

Figure 1 Typical Forward Characteristics



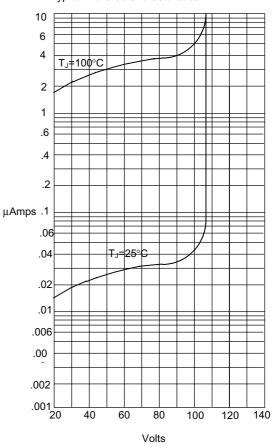






Average Forward Rectified Current - Amperes versus

Micro Commercial Components Figure 2 **Typical Reverse Characteristics**



Instantaneous Reverse Leakage Current - MicroAmperesersus Percent Of Rated Peak Reverse Voltage - Volts

Figure 4 Peak Forward Surge Current 300 250 200 150 Amps 100 50 0 2 6 8 10 20 60 80 100 4 40 Cycles

Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

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Ordering Information

Device	Packing	
(Part Number)-BP	Bulk;200pcs/Box	

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