

Micro Commercial Components



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Features

- High Current Capability, Low VF
- Low Power Loss, High Efficiency
- **Guard Ring for Transient Protection**
- Marking : type number
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

- Mounting Torgue: 5 in-lbs Maximum Operating Temperature: -55 $^\circ\mathbb{C}$ to +150 $^\circ\mathbb{C}$
- Storage Temperature: -55°C to +175°C
- Maximum Thermal Resistance: $R_{\theta JC} = 2.0^{\circ}C/W$ junction to case

	Maximum		Maximum DC
MCC	Recurrent	Maximum	Blocking
Part Number	Peak Reverse	RMS Voltage	Voltage
	Voltage	_	
MBR870	70V	49V	70V
MBR880	80V	56V	80V
MBR890	90V	63V	90V
MBR8100	100V	70V	100V

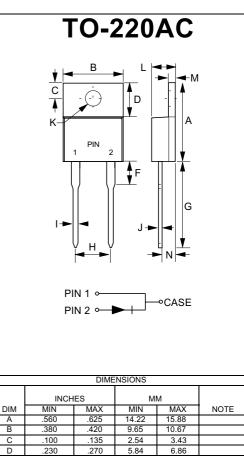
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	8A	T _C = 110°C
Peak Forward Surge Current	I _{FSM}	125A	8.3ms, half sine
Voltage Rate of Change	dv/dt	10000	Rated V_R
Maximum Instantaneous Forward Voltage	V _F	.85V .75V .95V .85V	$\begin{split} I_{FM} &= 8A @\ T_J = 25 ^{\circ} C \\ I_{FM} &= 8A @\ T_J = 125 ^{\circ} C \\ I_{FM} &= 16A @\ T_J = 25 ^{\circ} C \\ I_{FM} &= 16A @\ T_J = 125 ^{\circ} C \end{split}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.15mA 100mA	T _J = 25℃ T _J = 125℃
Typical Junction Capacitance	CJ	280pF	Measured at 1.0MHz, V_R =4.0V

Notes:1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.

MBR870 Thru **MBR8100**

8 Amp **Schottky Rectifier** 70-100 Volts



.250

.580 210

.045

.025 .161

.190

.055

12.70

4 83

0.51

0.30

3.53

3.56

1 14

.500

190

.020

.012

.139

.140

045

6.35

14.73

5.33

1.14

0.64

4.09

4.83

1 4 0

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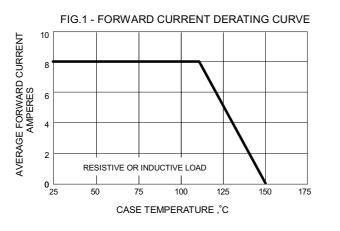
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MBR870 THRU MBR8100



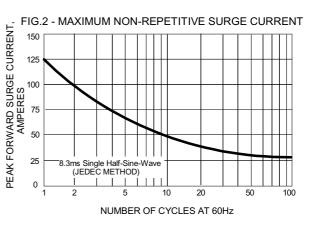
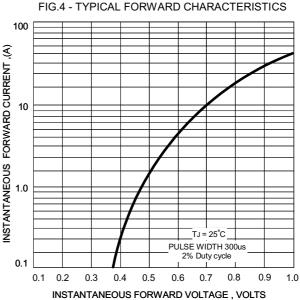


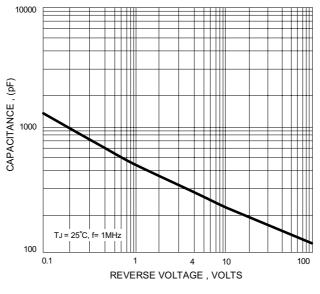
FIG.3 - TYPICAL REVERSE CHARACTERISTICS FIG.4 - TYP

0 20 40 60 80 100 120 PERCENT OF RATED PEAK REVERSE VOLTAGE ,(%)





140



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0.001



Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Box

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