

MBR30150PT THRU MBR30200PT

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 150 to 200 Volts Forward Current - 30.0 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Guardring for overvoltage protection
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

Case: TO-3P, Molded Plastic

Terminals: Plated Leads Solderable per

MIL-STD-750, Method 2026

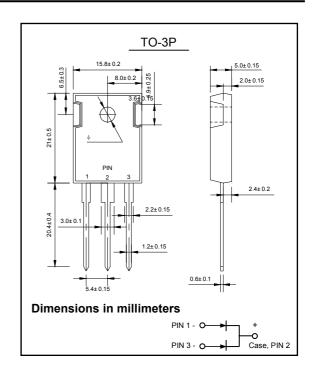
Polarity: See Diagram

Weight: 5.6 grams (approx.)

Mounting Position: Any

Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.





Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

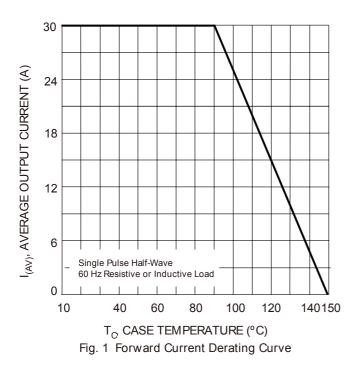
Characteristic	Symbol	MBRF30150PT	MBRF30200T	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	150	200	V
RMS Reverse Voltage	VR(RMS)	105	140	٧
Average Rectified Output Current @T _C = 105°C	lo	30		А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	250		А
Forward Voltage @I _F = 30A	VFM	0.92		V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	IRM	0.5 20		mA
Typical Junction Capacitance (Note 1)	Cj	320		pF
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +175		°C

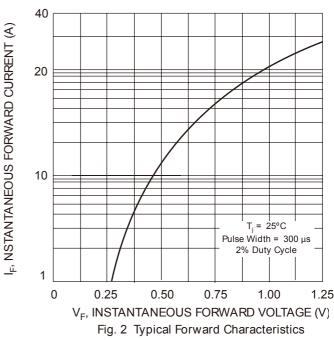
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case mounted on heatsink.



MBR30150PT THRU MBR30200PT RATINGS AND CHARACTERISTIC CURVES





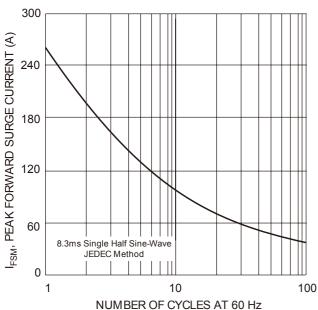
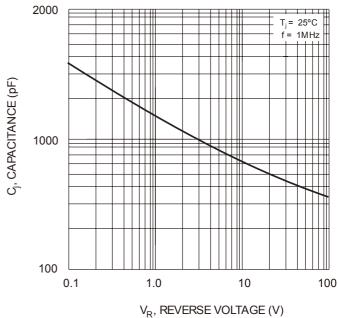


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current



V_R, REVERSE VOLIAGE (V) Fig. 4 Typical Junction Capacitance