

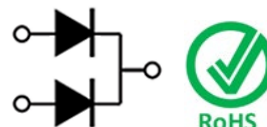
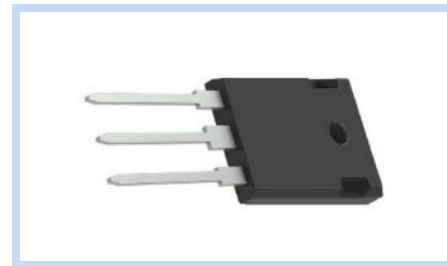
Schottky Barrier Diodes 150V 80A TO-247

MBR80150PT247

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FEATURES

- High Frequency Operation
- High Surge Capacity
- Low Forward Voltage Drop
- High Junction Temperature
- Application: High Frequency Inverters, Polar Protection, Free Wheeling



MECHANICAL DATA

- Case: Molded Plastic, TO-247 Package
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026

MAXIMUM RATINGS

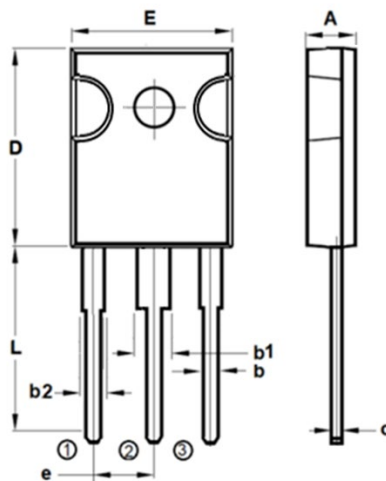
Parameter		Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	150	V
Maximum RMS Voltage		V_{RMS}	105	V
Maximum DC Blocking Voltage		V_{DC}	150	V
Maximum Average Forward Rectified Current	Per Leg	$I_{F(AV)}$	40	A
	Per Device		80	
Peak Forward Surge Current, 8.3ms Single Half-Sine-Wave Superimposed on Rate Load		I_{FSM}	275	A
Maximum Forward Voltage	$I_F=40A$	V_F	0.9	V
Maximum Reverse Current	$V_R=V_{RRM}, T_A=25^{\circ}C$	I_R	0.1	mA
	$V_R=V_{RRM}, T_A=100^{\circ}C$		20	
Typical Thermal Resistance from Junction to Case		$R_{\theta JC}$	0.4	$^{\circ}C/W$
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-55 to +175	$^{\circ}C$

Note : $T_A=25^{\circ}C$ unless otherwise specified

DIMENSIONS

Item	Min (mm)	Max (mm)
A	4.80	5.20
b	1.00	1.40
b1	2.80	3.20
b2	1.90	2.30
c	0.41	0.79
D	20.80	21.20
E	15.50	16.10
e	5.25	5.65
L	19.70	20.30

Notes: Pin 1&3: Anode; Pin 2 Cathode



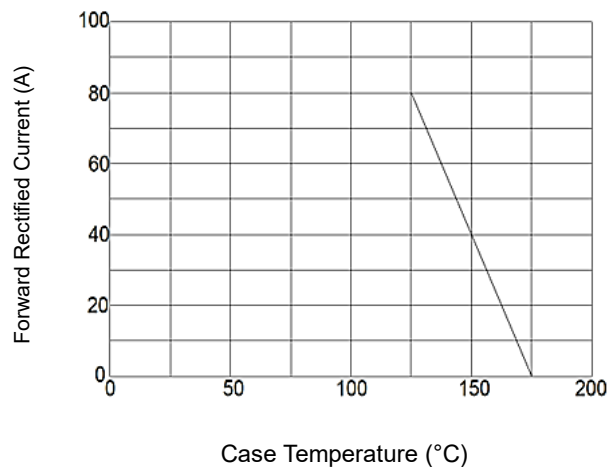
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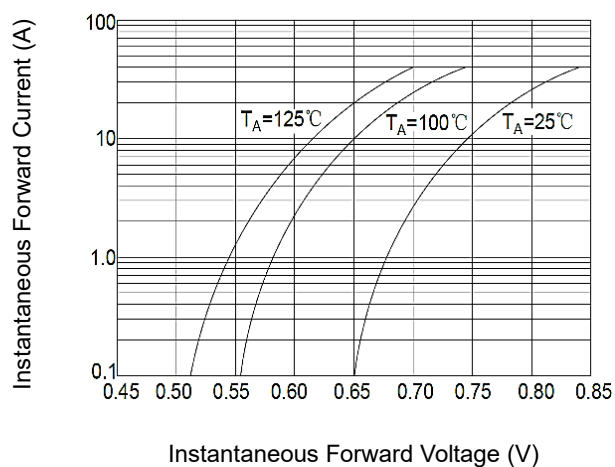
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CHARACTERISTIC CURVES

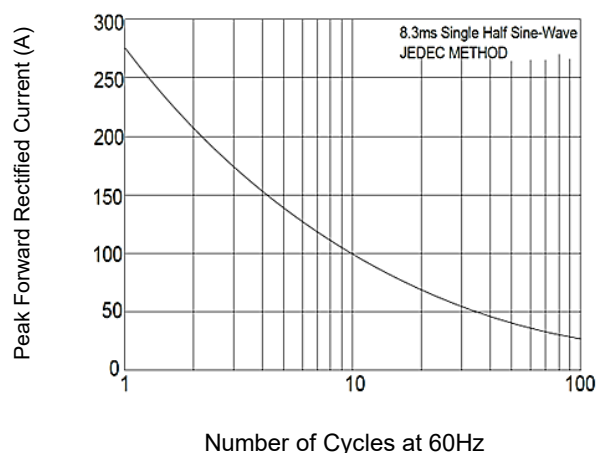
Forward Current Derating Curve



Typical Instantaneous Forward Characteristics



Non-Repetitive Peak Forward Surge Current



Typical Reverse Characteristics

