

MBR80H150PT

Schottky Barrier Rectifier

Voltage 150 V **Current** 80 A

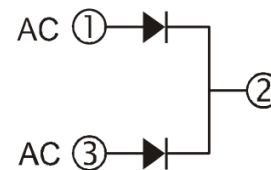
Features

- Low leakage current
- Low power loss, high efficiency
- High surge current capability
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : TO-3P Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 6.3673 grams

TO-3P



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive 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 Current		per device	80
		per diode	40
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	600	A
Typical Junction Capacitance Measured at 1 MHz And Applied V _R = 4 V	C _J	710	pF
Typical Thermal Resistance per diode	R _{θJA}	40	°C/W
	R _{θJC}	2	
	R _{θJL}	2.4	
Operating Junction Temperature Range	T _J	-55~175	°C
Storage Temperature Range	T _{STG}	-55~175	°C

MBR80H150PT

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage per diode	V_F	$I_F = 40\text{ A}, T_J = 25^\circ\text{C}$	-	0.83	0.9	V
		$I_F = 40\text{ A}, T_J = 125^\circ\text{C}$	-	0.7	0.75	
Reverse Current per diode	I_R	$V_R = 150\text{ V}, T_J = 25^\circ\text{C}$	-	1	2	μA
		$V_R = 150\text{ V}, T_J = 125^\circ\text{C}$	-	0.5	3	mA

MBR80H150PT

TYPICAL CHARACTERISTIC CURVES

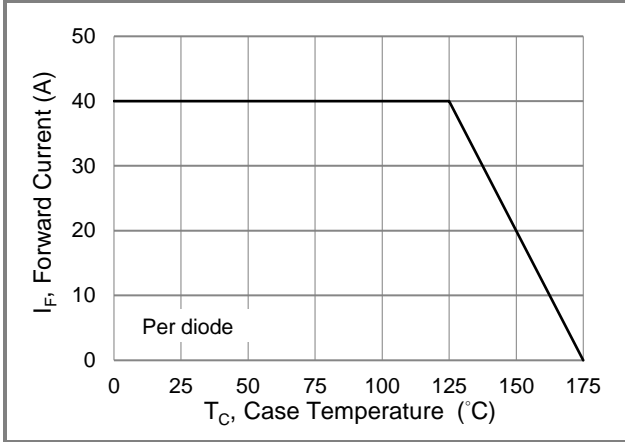


Fig.1 Forward Current Derating Curve

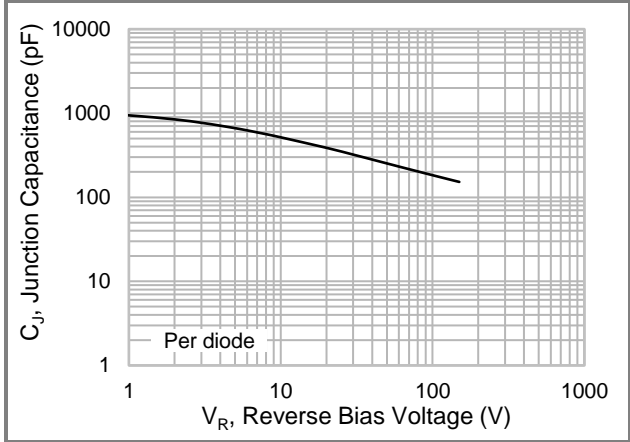


Fig.2 Typical Junction Capacitance

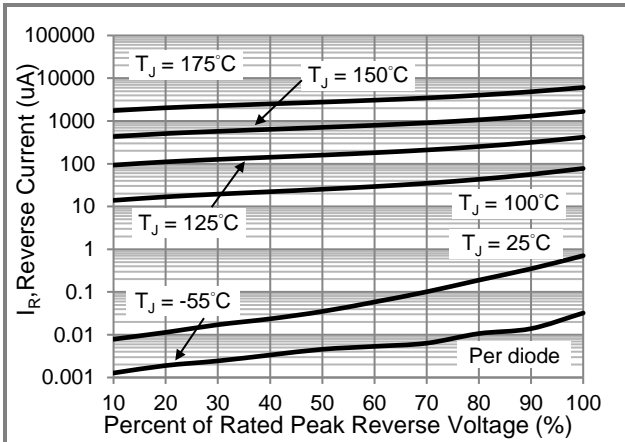


Fig.3 Typical Reverse Characteristics

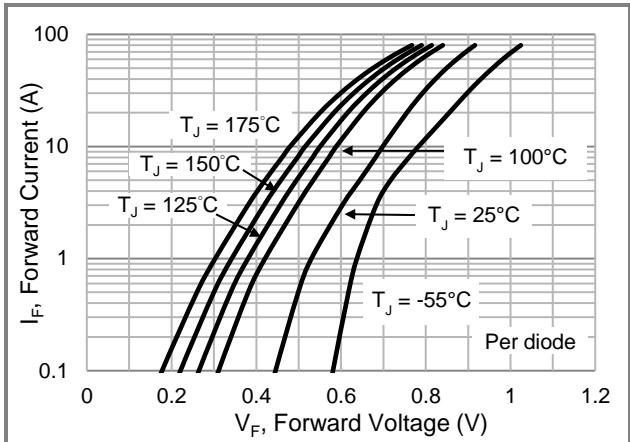


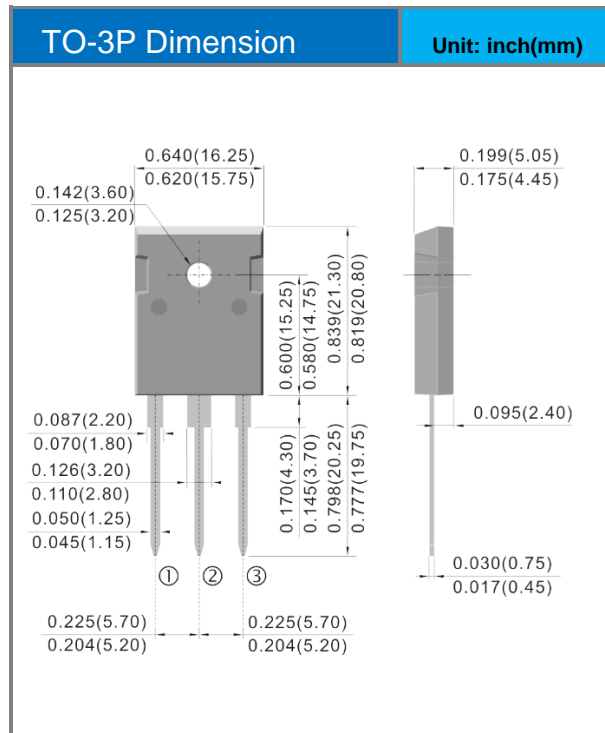
Fig.4 Typical Forward Characteristics

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
MBR80H150PT	TO-3P	30pcs / Tube	MBR80H150PT

Mounting Pad Layout



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