Green Products

Technical Data Data Sheet 3491, Rev.-

MBR3030PT-G-MBR3060PT-G 30A SCHOTTKY BARRIER RECTIFIER

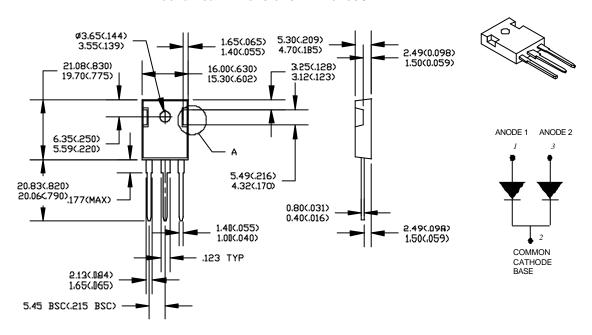
Mechanical Data:

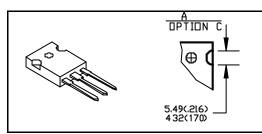
• Case: Molded Plastic • Polarity: As Marked on Body • Weight: 5.6 grams (approx.) • Mounting Position: Any • Marking: Type Number

Features:

- Schottky Barrier Chip
- Guard Ring for Transient Protection
- High Current Capability, Low Forward
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- Green Products in Compliance with the RoHS Directive

Mechanical Dimensions: In Inches / mm





Option C is also available.

 $\overset{-}{\text{Lo}}$ order specifically the option C, please add suffix " -C" to the part number:

To order specifically the standard option, please add suffix "- S" to the part number.

If there is no suffix to the part number, the part could come with either option.

TO-247AD

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SENSITRON SEMICONDUCTOR

MBR3030PT-G-MBR3060PT-G

Data Sheet 3491, Rev. -

Green Products

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	MBR 3030PT-G	MBR 3035PT-G	MBR 3040PT-G	MBR 3045PT-G	MBR 3050PT-G	MBR 3060PT-G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	30	35	40	45	50	60	V
RMS Reverse Voltage	VR(RMS)	21	24.5	28	31.5	35	42	V
Average Rectified Output Current $@T_C = 95^{\circ}C$	ю	30						Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I FSM	200						Α
Forward Voltage @ \mathbb{\mtx\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	VFM	0.65 0.75 0.60 0.65					V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	RМ	1.0 5.0 60 100				-	mA	
Typical Junction Capacitance (Note 1)	Ö	700						pF
Typical Thermal Resistance Junction to Case (Note 2)	R≢Jc		1.4 2.0				0	K/W
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150					°C	

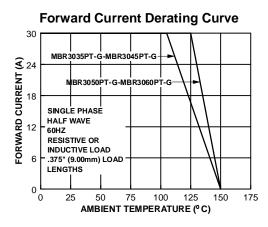
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

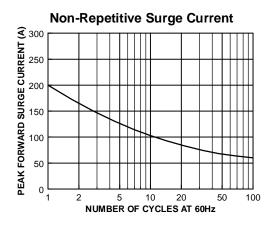
^{2.} Thermal resistance junction to case mounted on heatsink.

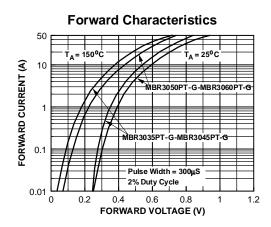
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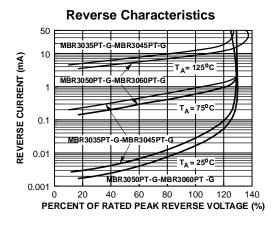
Data Sheet 3491, Rev. -

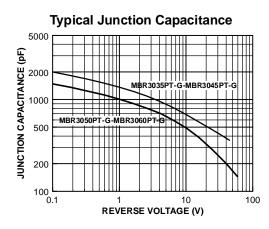
Green Products

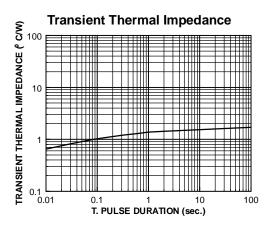












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MBR3030PT-G-MBR3060PT-G

Data Sheet 3491, Rev. - Green Products

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