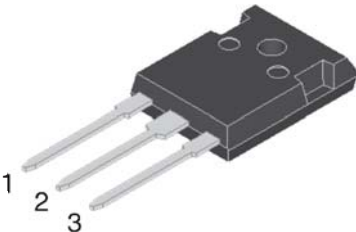





30.0 Amp. Schottky Barrier Rectifier

<p>TO-3P / TO-247AD</p>   <p>Common Cathode Suffix "C"</p>	<p>Voltage 45 to 150 V</p>	<p>Current 30.0 A</p>	
	<p>FEATURES</p> <ul style="list-style-type: none"> • Ideal for automated placement • Low power losses, high efficiency • High surge current capability • Guarding for overvoltage protection • Low forward voltage drop • Solder dip 260°C, 10s • Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC • Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C 		  RoHS COMPLIANT
	<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: TO-3P / TO-247AD. Epoxy meets UL 94V-0 flammability rating. • Polarity: As marked on the body. • Mounting Torque: 10 in-lbs maximum. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. 		
<p>TYPICAL APPLICATIONS</p> <p>Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.</p>			

Maximum Ratings and Electrical Characteristics at 25°C

Marking Code		MBR3045PT	MBR3060PT	MBR30100PT	MBR30150PT
		MBR3045PT	MBR3060PT	MBR30100PT	MBR30150PT
V_{RRM}	Peak recurrent reverse voltage (V)	45	60	100	150
V_{RMS}	Maximum RMS voltage (V)	31	42	70	105
V_{DC}	Maximum DC blocking voltage (V)	45	60	100	150
$I_F (AV)$	Maximum average Forward current (both diodes conducting) (See graphic)	30 A			
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	200 A			
I_{RRM}	Peak repetitive reverse surge current	2.0 A	1.0 A		
T_j	Operating temperature range	- 65 to + 150 °C			
T_{stg}	Storage temperature range	- 65 to + 175 °C			

Electrical Characteristics at Tamb = 25 °C

V_F	Max. forward voltage drop at $I_F = 15$ A (Note 1)	$T_c = 25$ °C	--	0.75 V	0.85 V	0.95 V
		$T_c = 125$ °C	0.60 V	0.65 V	0.75 V	0.92 V
	Max. forward voltage drop at $I_F = 30$ A	$T_c = 25$ °C	0.82 V	--	--	1.02 V
		$T_c = 125$ °C	0.72 V	--	--	0.98 V
I_R	Max. Instantaneous reverse current at $V_R = V_{RRMax}$ (Note 3)	$T_c = 25$ °C	1.0 mA		0.5 mA	
		$T_c = 125$ °C	20.0 mA	15.0 mA	10.0 mA	
R_{thj-C}	Typical Thermal Resistance (Note 2)	1.4 °C/W				

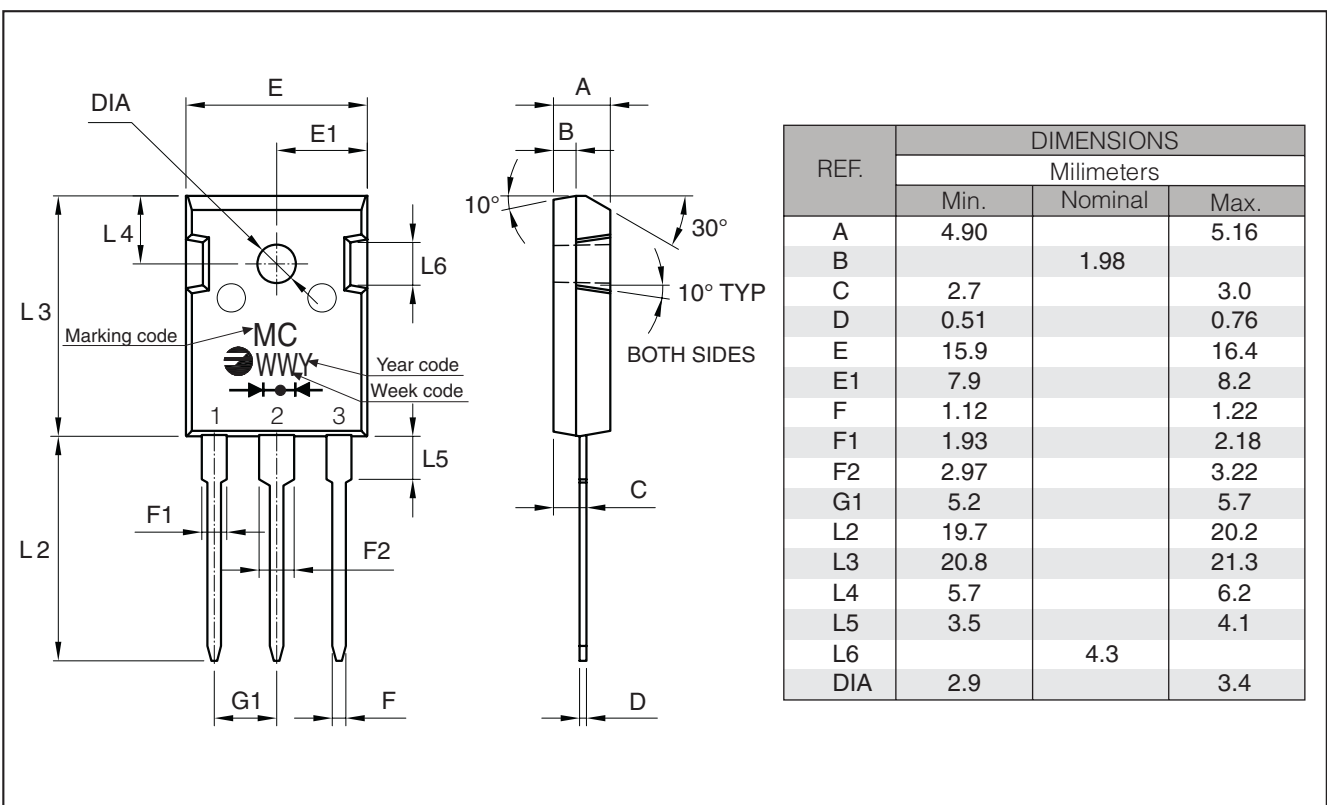
Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle
 2. Thermal Resistance from Junction to Case per diode
 3. Pulse test: Pulse width ≤ 40ms

30.0 Amp. Schottky Barrier Rectifier

Ordering information

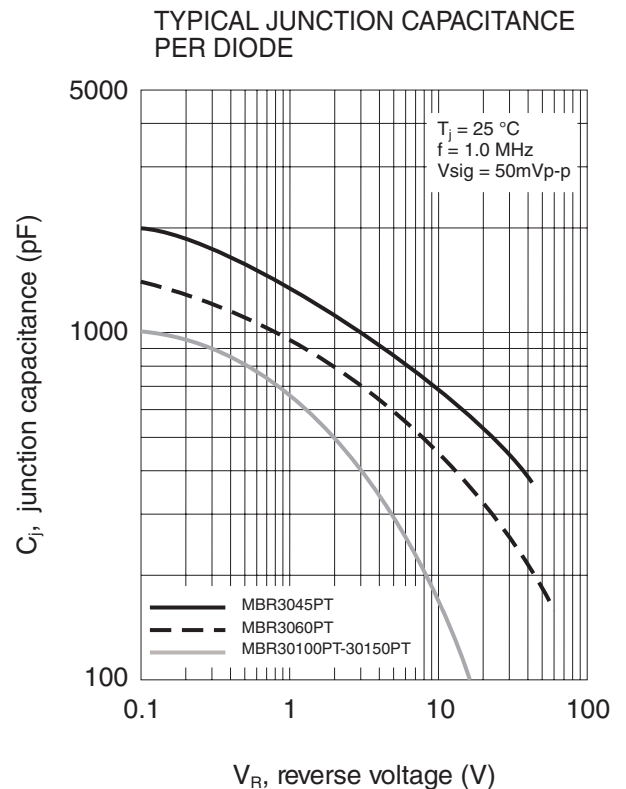
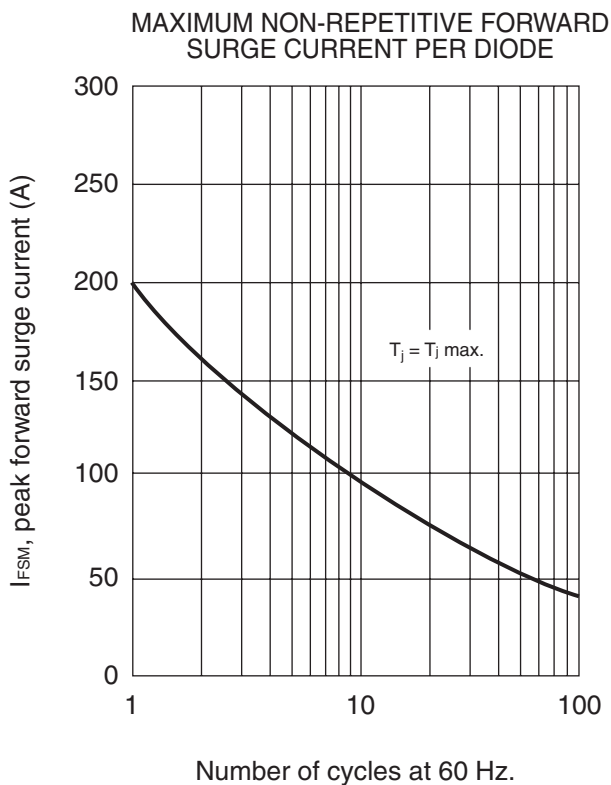
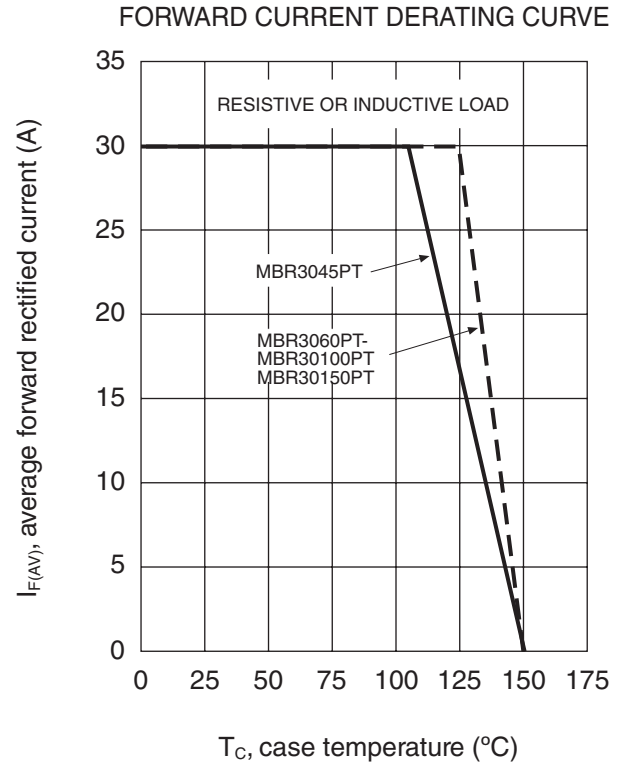
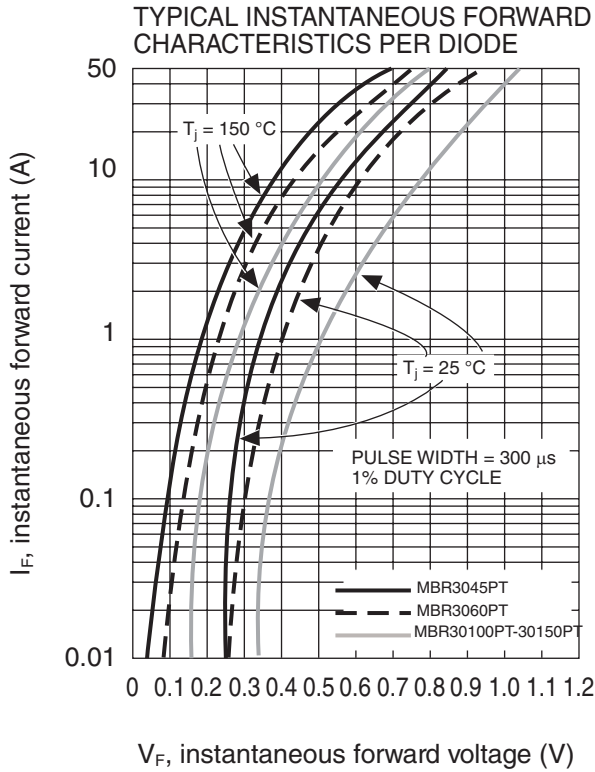
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
MBR3060PTC 00TUC	TU	TUBE	900	5.6

Package Outline Dimensions: (mm) TO-3P / TO-247AD



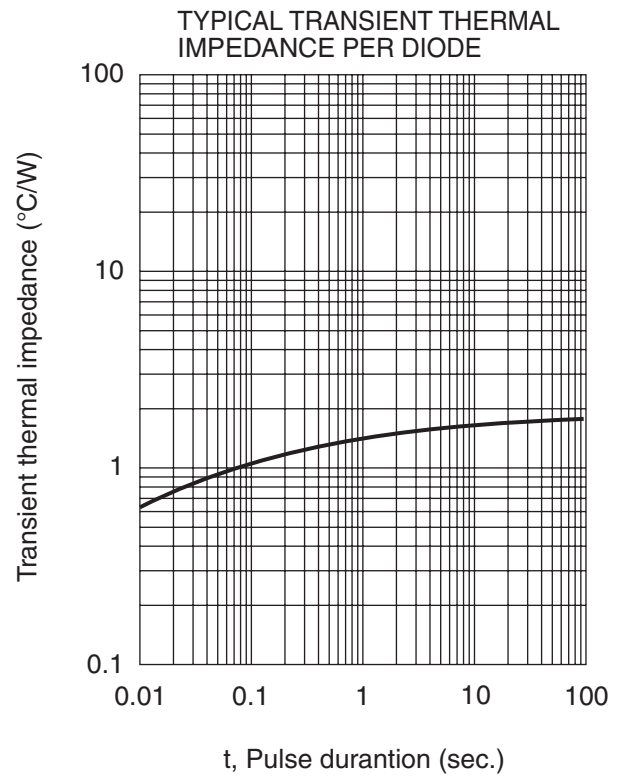
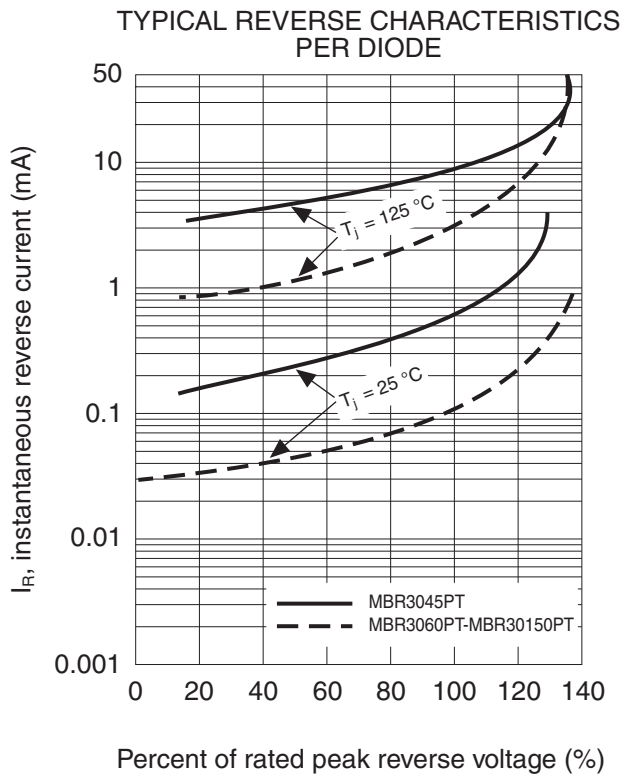
30.0 Amp. Schottky Barrier Rectifier

Ratings and Characteristics (Ta 25 °C unless otherwise noted)



30.0 Amp. Schottky Barrier Rectifier

Ratings and Characteristics (Ta 25 °C unless otherwise noted)



30.0 Amp. Schottky Barrier Rectifier

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