

ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)						
PARAMETER	TEST CONDITIONS		SYMBOL	MBR30H90PT	MBR30H100PT	UNIT
Maximum instantaneous forward voltage per diode ⁽¹⁾	$I_F = 15\text{ A}$	$T_J = 25\text{ }^\circ\text{C}$	V_F			V
	$I_F = 15\text{ A}$	$T_J = 125\text{ }^\circ\text{C}$				
	$I_F = 30\text{ A}$	$T_J = 25\text{ }^\circ\text{C}$				
	$I_F = 30\text{ A}$	$T_J = 125\text{ }^\circ\text{C}$				
Maximum instantaneous reverse current at rated DC blocking voltage per diode ⁽¹⁾			I_R			μA mA
	$T_J = 25\text{ }^\circ\text{C}$					
		$T_J = 125\text{ }^\circ\text{C}$				

Note:

(1) Pulse test: 300 μs pulse width, 1 % duty cycle

THERMAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)				
PARAMETER	SYMBOL	MBR30H90PT	MBR30H100PT	UNIT
Thermal resistance from junction to case per diode	$R_{\theta JC}$	1.6		$^\circ\text{C/W}$

ORDERING INFORMATION (Example)					
PACKAGE	PREFERRED P/N	UNIT WEIGHT (g)	PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
TO-247AD	MBR30H100PT-E3/45	6.13	45	30/tube	Tube

RATINGS AND CHARACTERISTICS CURVES

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

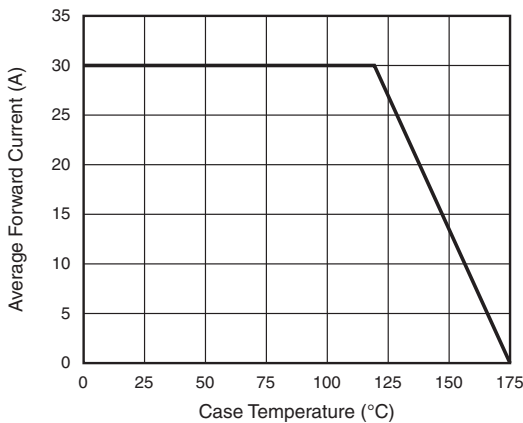


Figure 1. Forward Derating Curve

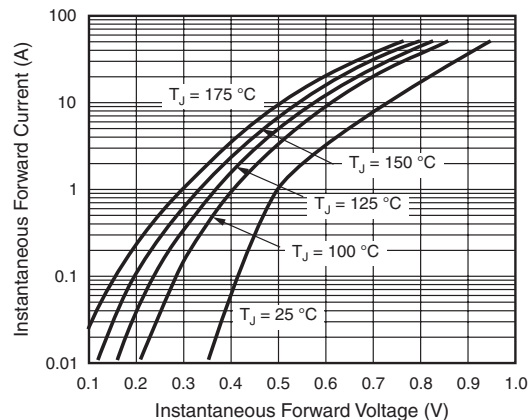


Figure 2. Typical Instantaneous Forward Characteristics Per Diode

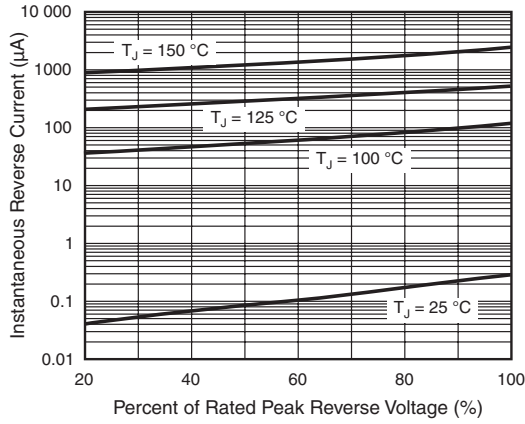


Figure 3. Typical Reverse Characteristics Per Diode

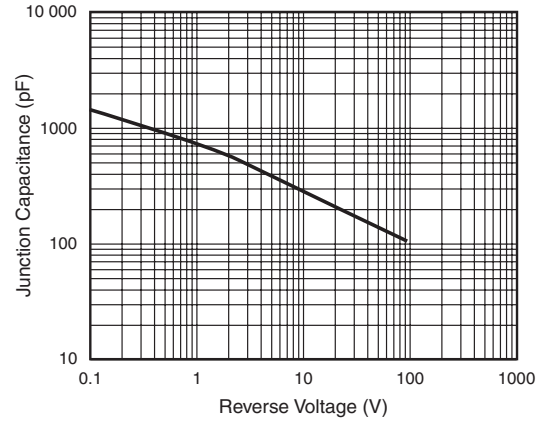
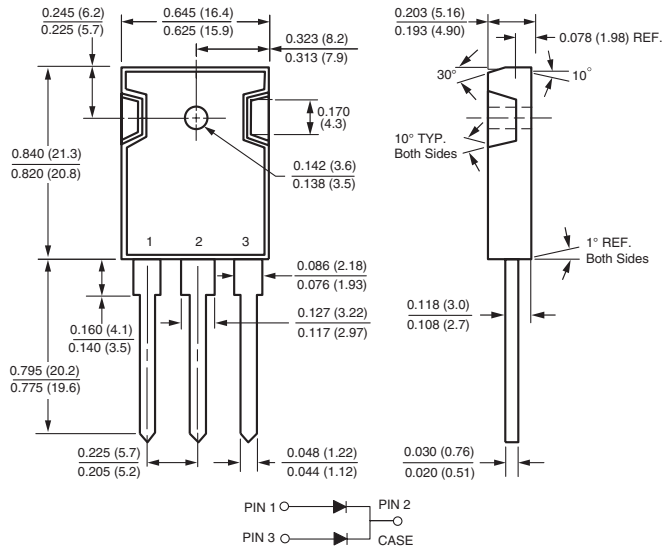


Figure 4. Typical Junction Capacitance Per Diode

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

TO-247AD (TO-3P)





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