



ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)						
PARAMETER	TEST CONDITIONS	SYMBOL	TYP.	MAX.	UNIT	
Maximum instantaneous forward voltage per diode ⁽¹⁾	$I_F = 15\text{ A}$	$T_A = 25\text{ }^\circ\text{C}$	V_F	1.05	1.10	V
		$T_A = 125\text{ }^\circ\text{C}$		0.97		
Reverse current per diode ⁽²⁾	Rated V_R	$T_A = 25\text{ }^\circ\text{C}$	I_R	-	10	μA
		$T_A = 125\text{ }^\circ\text{C}$		90	500	
Typical junction capacitance per diode	4.0 V, 1 MHz	C_J	72	-	pF	

Notes

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

⁽²⁾ Pulse test: 10 ms pulse width

THERMAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)					
PARAMETER	SYMBOL	PB3006	PB3008	PB3010	UNIT
Typical thermal resistance	$R_{\theta JC}$ ⁽¹⁾	0.95			$^\circ\text{C/W}$
	$R_{\theta JA}$ ⁽²⁾	20			

Notes

⁽¹⁾ With 60 W air cooled heatsink

⁽²⁾ Without heatsink, free air

ORDERING INFORMATION (Example)				
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
PB3006-E3/45	7.42	45	20	Tube

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

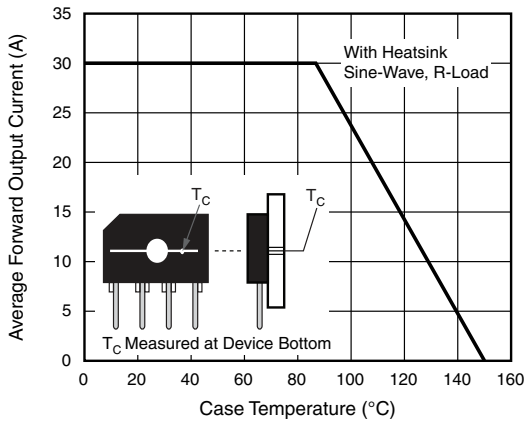


Fig. 1 - Derating Curve Output Rectified Current

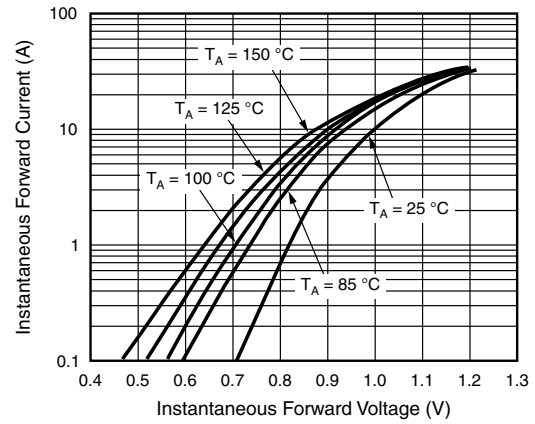


Fig. 4 - Typical Forward Characteristics Per Diode

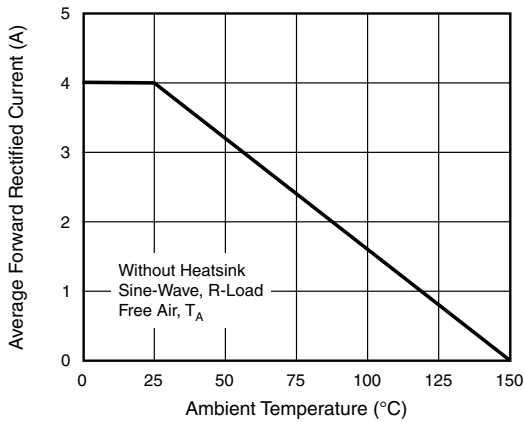


Fig. 2 - Forward Current Derating Curve

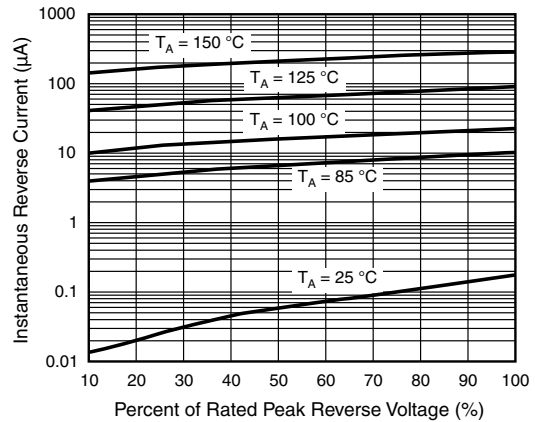


Fig. 5 - Typical Reverse Characteristics Per Diode

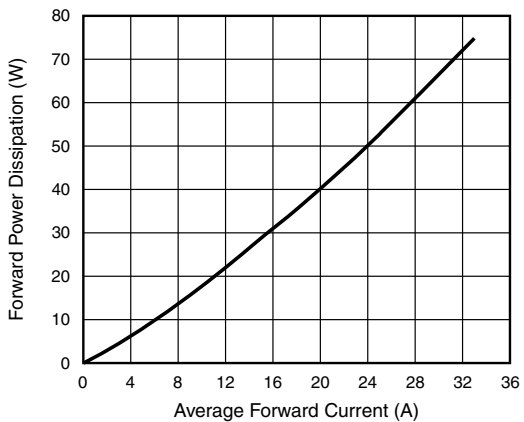


Fig. 3 - Forward Power Dissipation

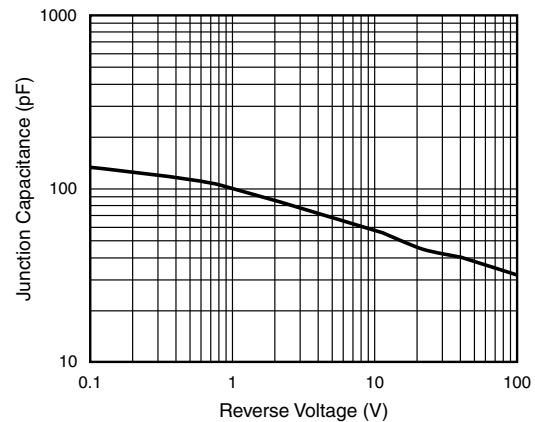
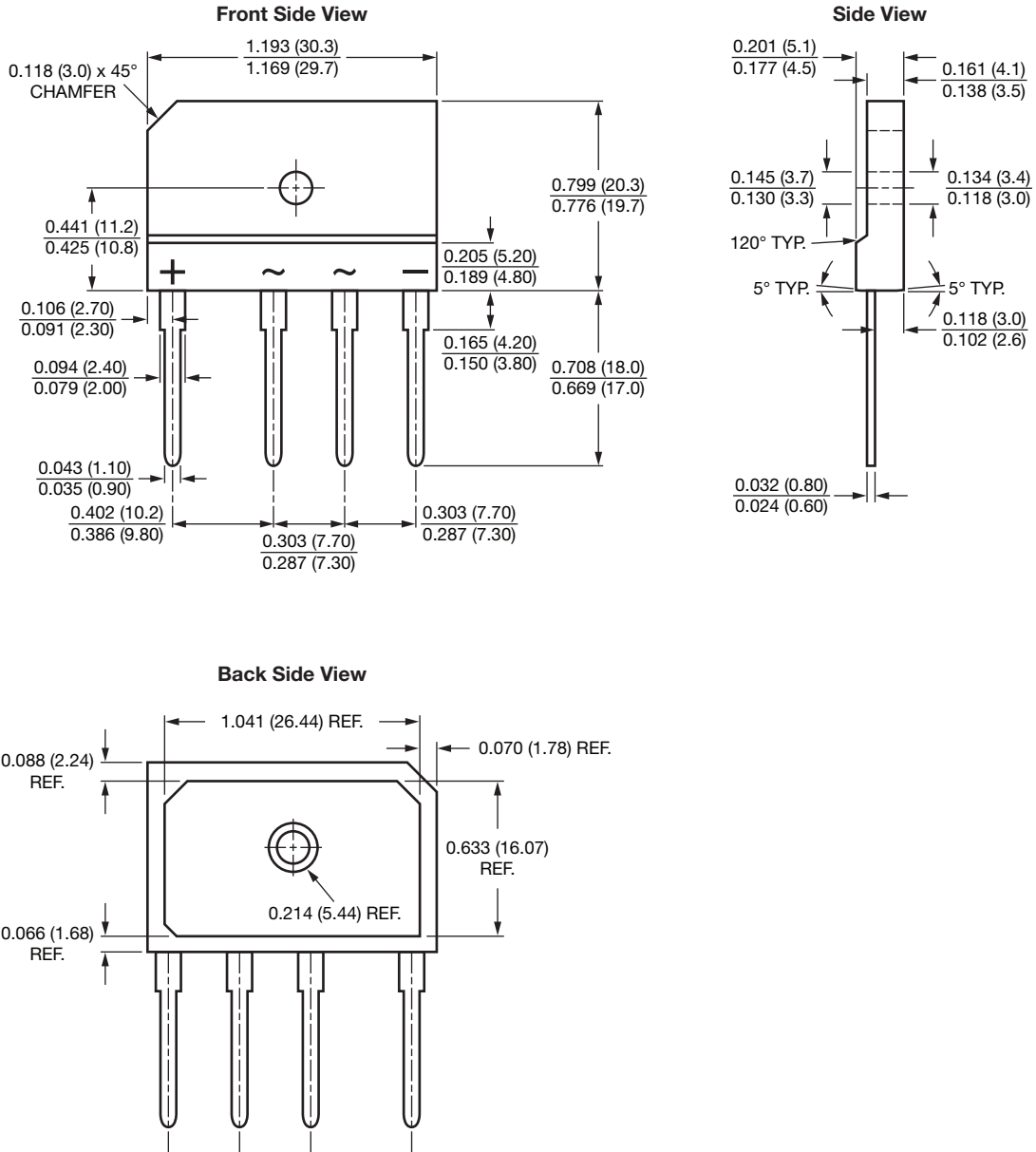


Fig. 6 - Typical Junction Capacitance Per Diode



PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

Case Type PB





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