

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

PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT
Instantaneous forward voltage per diode	I _F = 5 A	T _A = 25 °C	V _F ⁽¹⁾	0.47	-	V
	I _F = 7.5 A			0.51	-	
	I _F = 15 A			0.60	0.70	
	I _F = 5 A	T _A = 125 °C		0.38	-	
	I _F = 7.5 A			0.44	-	
	I _F = 15 A			0.57	0.65	
Reverse current per diode	V _R = 60 V	T _A = 25 °C	I _R ⁽²⁾	-	1.2	mA
		T _A = 125 °C		20	45	

Notes(1) Pulse test: 300 μs pulse width, 1 % duty cycle(2) Pulse test: Pulse width $\leq 40\text{ ms}$ **THERMAL CHARACTERISTICS** ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VT3060C	VIT3060C	UNIT
Typical thermal resistance	per diode	2.5		°C/W
	per device	1.7		

ORDERING INFORMATION (Example)

PACKAGE	PREFERRED P/N	UNIT WEIGHT (g)	PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
TO-220AB	VT3060C-M3/4W	1.89	4W	50/tube	Tube
TO-262AA	VIT3060C-M3/4W	1.46	4W	50/tube	Tube

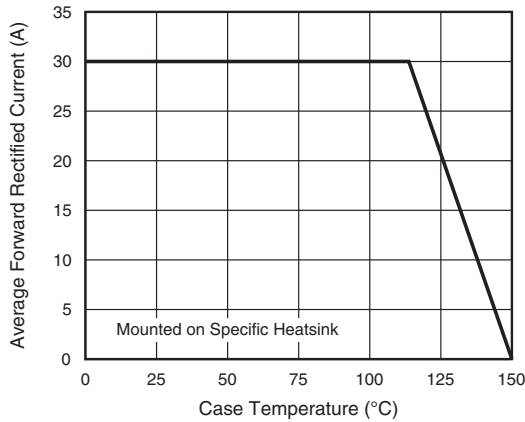
RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)


Fig. 1 - Maximum Forward Current Derating Curve

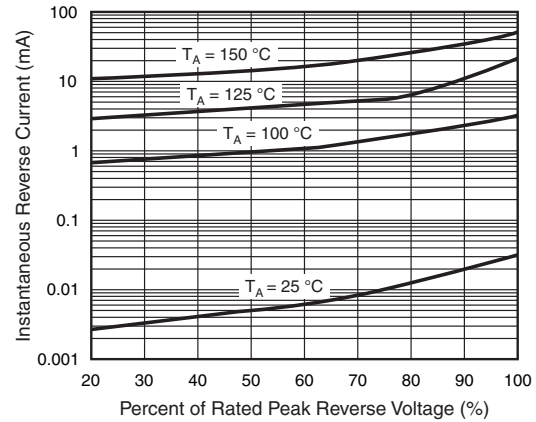


Fig. 4 - Typical Reverse Characteristics

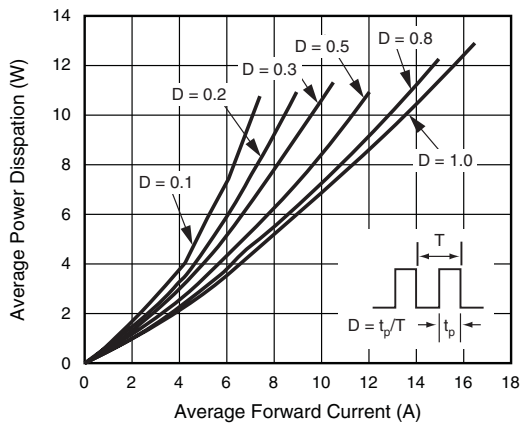


Fig. 2 - Forward Power Dissipation Characteristics

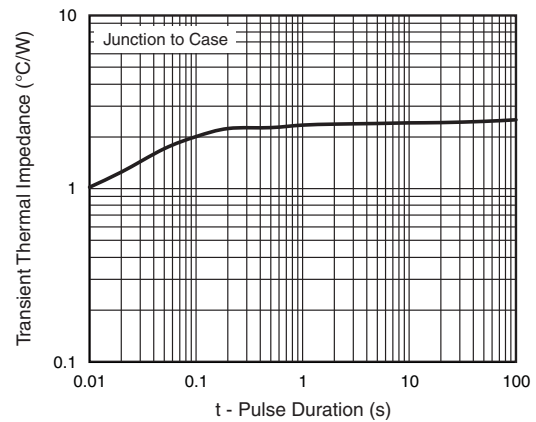


Fig. 5 - Typical Transient Thermal Impedance

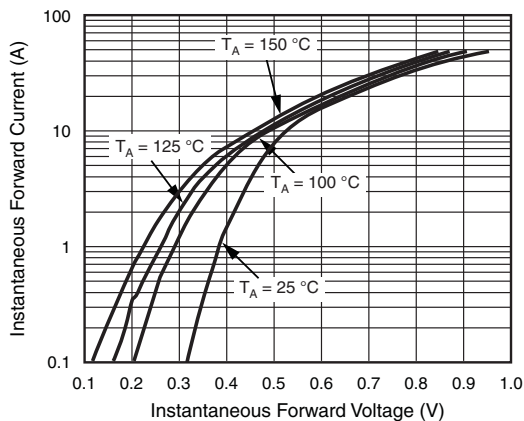


Fig. 3 - Typical Instantaneous Forward Characteristics

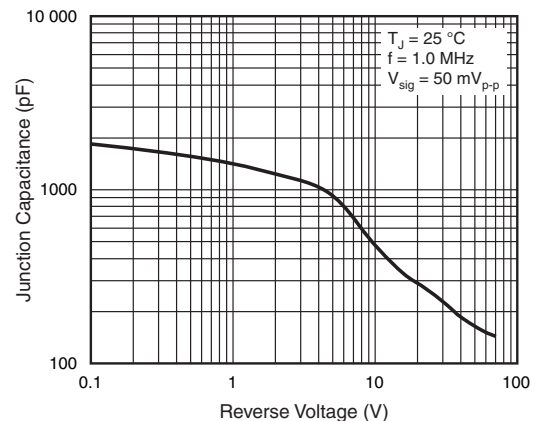
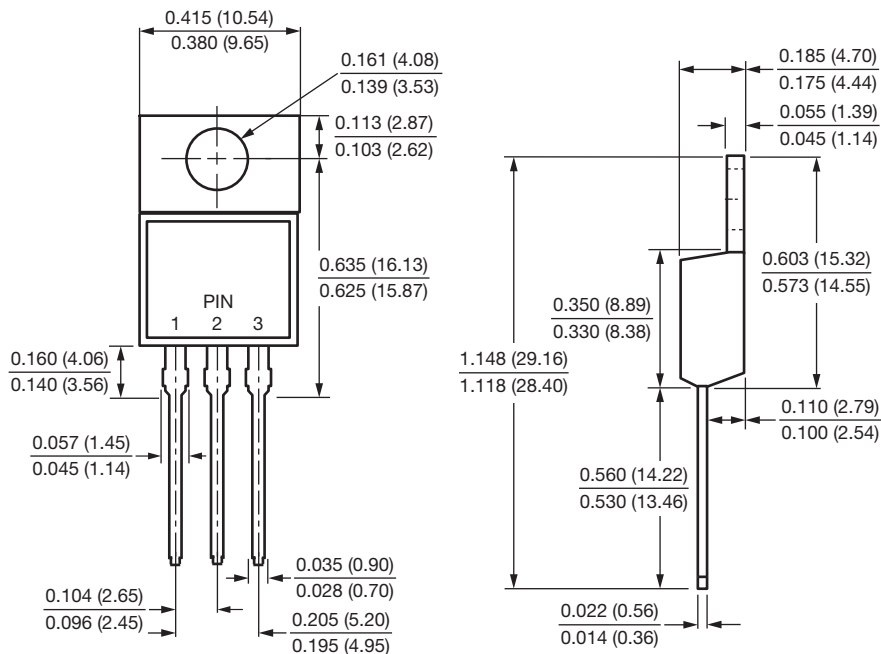


Fig. 6 - Typical Junction Capacitance

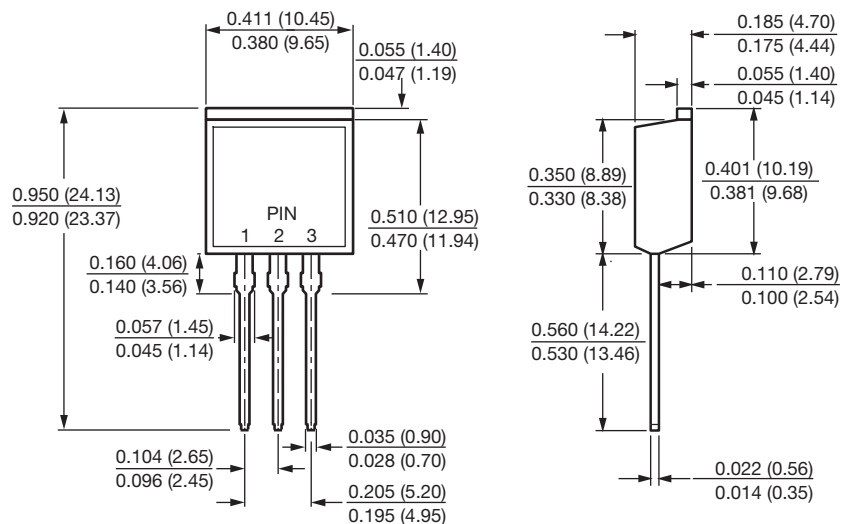


PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

TO-220AB



TO-262AA





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