



ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)						
PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT
Instantaneous forward voltage per diode	$I_F = 5\text{ A}$	$T_A = 25\text{ }^\circ\text{C}$	$V_F^{(1)}$	0.69	-	V
	$I_F = 10\text{ A}$			0.84	-	
	$I_F = 20\text{ A}$			1.15	1.43	
	$I_F = 5\text{ A}$	$T_A = 125\text{ }^\circ\text{C}$		0.55	-	
	$I_F = 10\text{ A}$			0.64	-	
	$I_F = 20\text{ A}$			0.75	0.82	
Reverse current per diode	$V_R = 100\text{ V}$	$T_A = 25\text{ }^\circ\text{C}$	$I_R^{(2)}$	2	-	μA
		$T_A = 125\text{ }^\circ\text{C}$		2.5	-	mA
	$V_R = 150\text{ V}$	$T_A = 25\text{ }^\circ\text{C}$		-	250	μA
		$T_A = 125\text{ }^\circ\text{C}$		5	25	mA

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	V40150C	VB40150C	VI40150C	UNIT
Typical thermal resistance per diode	$R_{\theta JC}$	1.8			$^\circ\text{C/W}$

ORDERING INFORMATION (Example)					
PACKAGE	PREFERRED P/N	UNIT WEIGHT (g)	PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
TO-220AB	V40150C-M3/4W	1.89	4W	50/tube	Tube
TO-262AA	VI40150C-M3/4W	1.46	4W	50/tube	Tube
TO-263AB	VB40150C-M3/I	1.39	I	800/reel	Tape and reel



RATINGS AND CHARACTERISTICS CURVES (T_A = 25 °C unless otherwise noted)

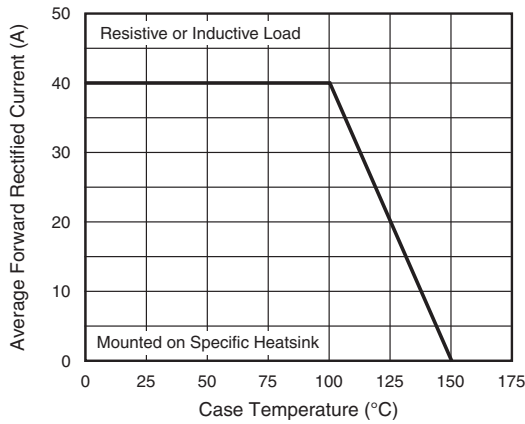


Fig. 1 - Maximum Forward Current Derating Curve

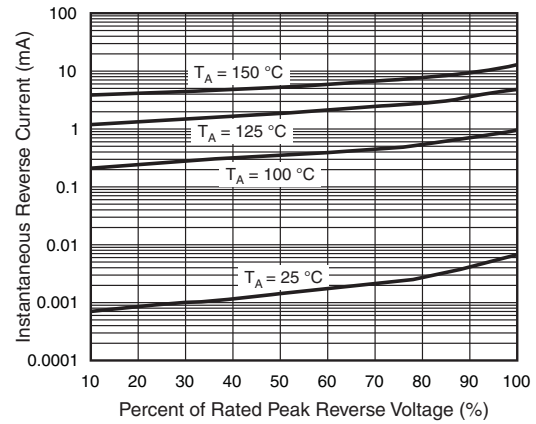


Fig. 4 - Typical Reverse Characteristics

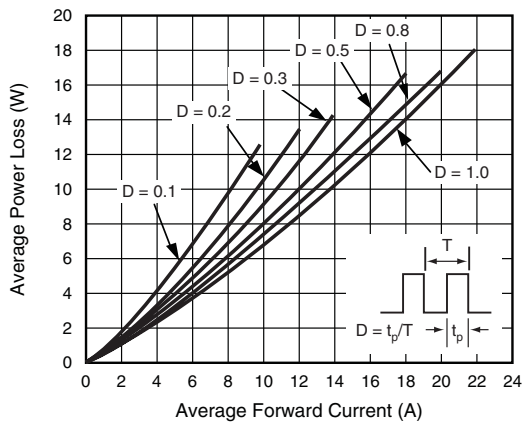


Fig. 2 - Forward Power Dissipation Characteristics

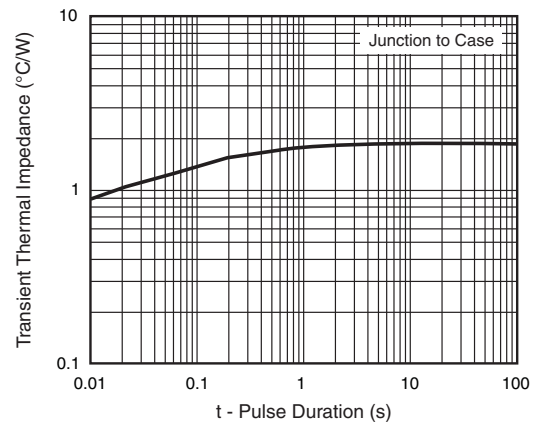


Fig. 5 - Typical Transient Thermal Impedance

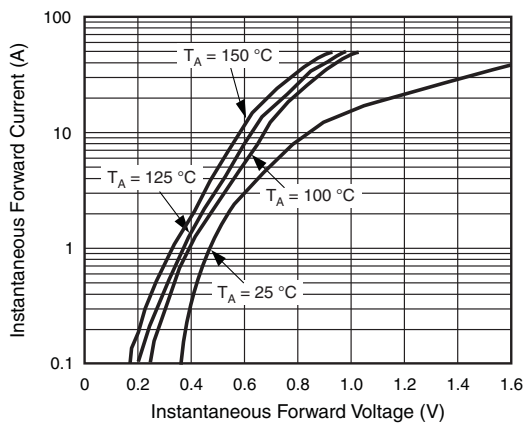


Fig. 3 - Typical Instantaneous Forward Characteristics

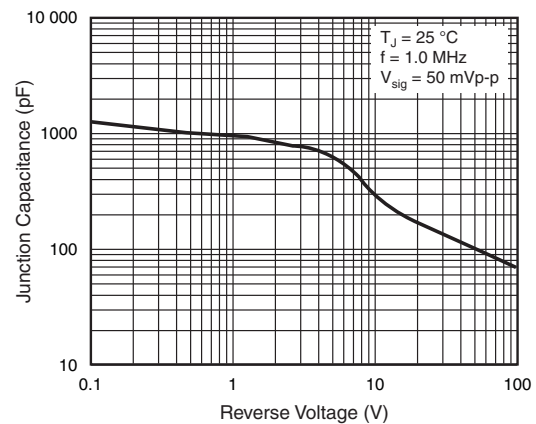
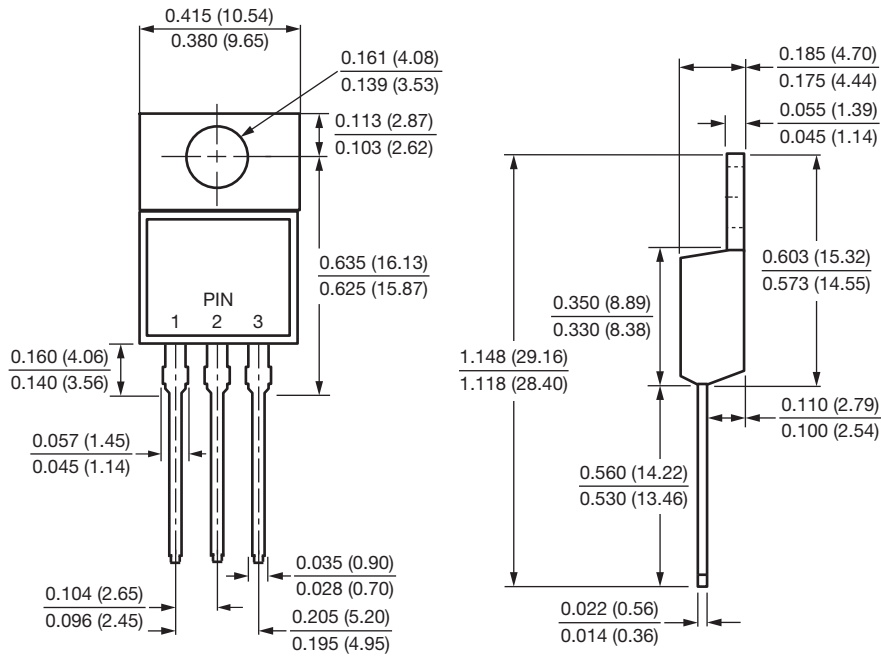


Fig. 6 - Typical Junction Capacitance

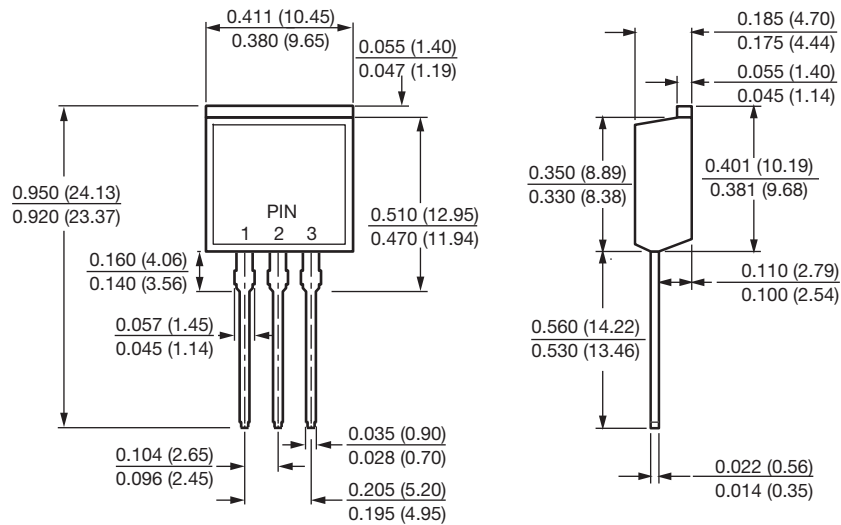


PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

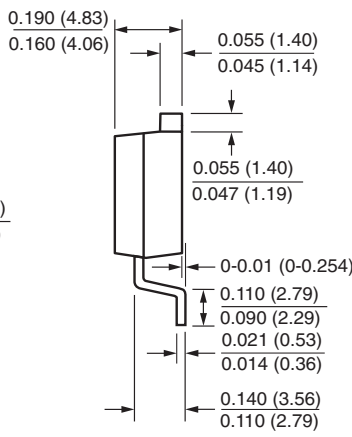
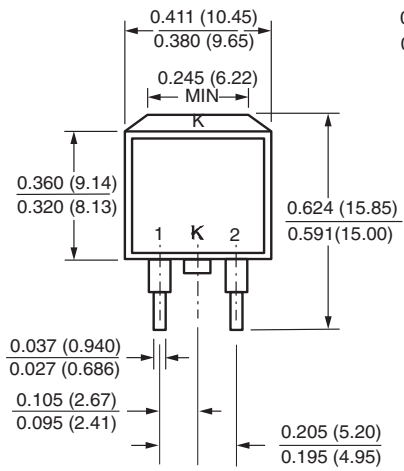
TO-220AB



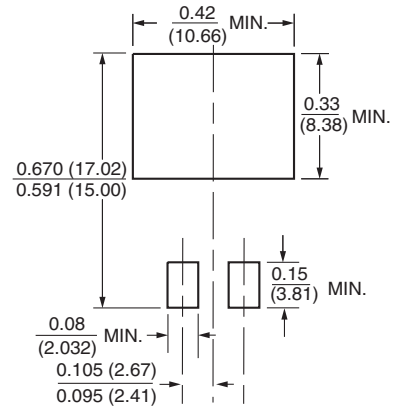
TO-262AA



D²PAK (TO-263AB)



Mounting Pad Layout





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