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Vishay General Semiconductor

ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)									
PARAMETER	TEST CO	TEST CONDITIONS		TYP.	MAX.	UNIT			
Instantaneous forward voltage per diode	I _F = 5 A	T _A = 25 °C	V _F ⁽¹⁾	0.516	-	- V			
	I _F = 7.5 A			0.576	-				
	I _F = 15 A			0.734	0.80				
	I _F = 5 A	T _A = 125 °C		0.455	-				
	I _F = 7.5 A			0.522	-				
	I _F = 15 A			0.627	0.68				
Reverse current per diode	V _R = 70 V	T _A = 25 °C	- I _R ⁽²⁾	7.2	-	μΑ			
	V _R = 70 V	T _A = 125 °C		8.0	-	mA			
	V _R = 100 V	T _A = 25 °C		65	500	μΑ			
	V _R = 100 V	T _A = 125 °C		20	35	mA			

Notes

 $^{(1)}\,$ Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width \leq 40 ms

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	V30100C	VI30100C	UNIT		
Typical thermal resistance per diode	$R_{ heta JC}$	2.5		°C/W		

ORDERING INFORMATION (Example)								
PACKAGE	PREFERRED P/N	UNIT WEIGHT (g)	PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
TO-220AB	V30100C-M3/4W	1.88	4W	50/tube	Tube			
TO-262AA	VI30100C-M3/4W	1.45	4W	50/tube	Tube			

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

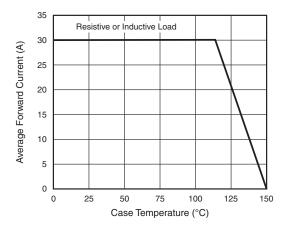


Fig. 1 - Forward Current Derating Curve

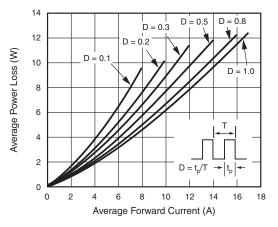


Fig. 2 - Forward Power Loss Characteristics Per Diode

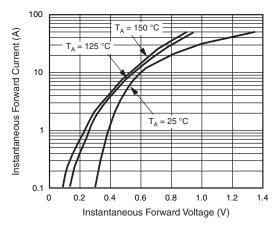


Fig. 3 - Typical Instantaneous Forward Characteristics Per Diode

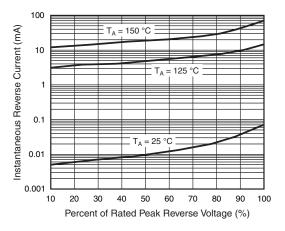


Fig. 4 - Typical Reverse Characteristics Per Diode

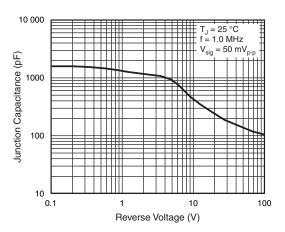


Fig. 5 - Typical Junction Capacitance

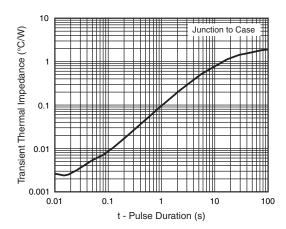
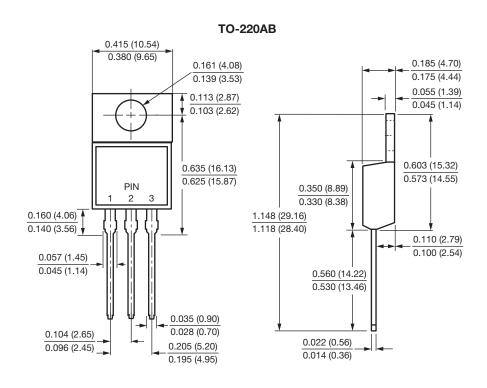


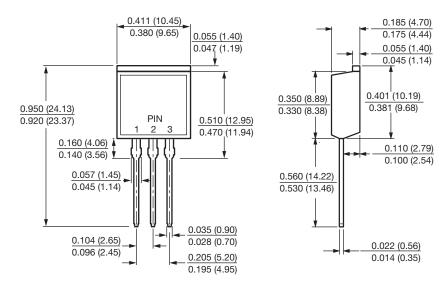
Fig. 6 - Typical Transient Thermal Impedance Per Diode

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PACKAGE OUTLINE DIMENSIONS in inches (millimeters)



TO-262AA





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