

Vishay General Semiconductor

ELECTRICAL CHARACTERISTICS (T _A = 25 °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⁾	0.55	-	V	
	I _F = 7.5 A			0.62	-		
	I _F = 15 A			0.82	0.90		
	I _F = 5 A	T _A = 125 °C		0.49	-		
	I _F = 7.5 A			0.55	-		
	I _F = 15 A			0.66	0.74		
Reverse current per diode $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	V 00.V	T _A = 25 °C		0.01	-		
	-						
	V _R = 120 V	T _A = 25 °C	IR (-)	-	0.5	- mA	
		T _A = 125 °C		11.0	25		
Junction capacitance	4 V, 1MHz		CJ	1300	-	pF	

Notes

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

(2) Pulse test: Pulse width $\leq 5 \text{ ms}$

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	V30120CI	UNIT			
Typical thermal resistance per device	$R_{ heta JC}$	1.8	°C/W			

ORDERING INFORMATION (Example)							
PREFERRED P/N	UNIT WEIGHT (g)	PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
V30120CI-M3/P	1.88	Р	50/tube	Tube			



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

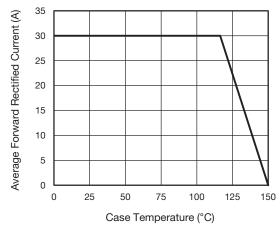


Fig. 1 - Forward Current Derating Curve

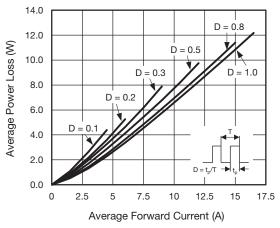


Fig. 2 - Forward Power Loss Characteristics Per Diode

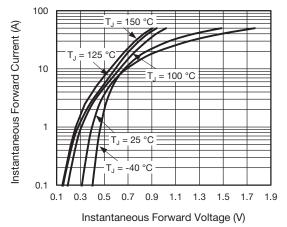


Fig. 3 - Typical Instantaneous Forward Characteristics Per Diode

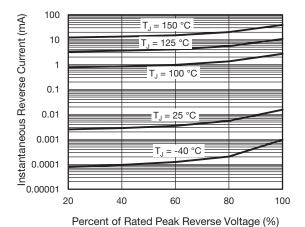


Fig. 4 - Typical Reverse Characteristics Per Diode

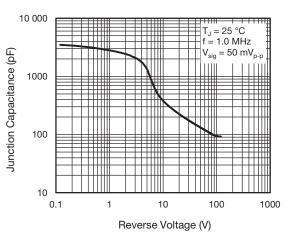


Fig. 5 - Typical Junction Capacitance

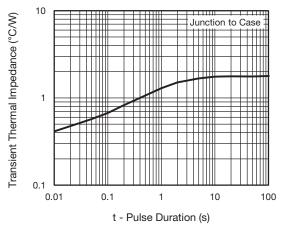
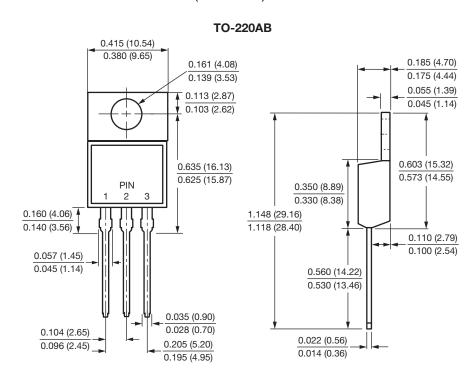


Fig. 6 - Typical Transient Thermal Impedance Per Device



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PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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