



ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)						
PARAMETER	SYMBOL	TEST CONDITIONS		TYP.	MAX.	UNIT
Maximum instantaneous forward voltage	V_F ⁽¹⁾	$I_F = 4.0\text{ A}$	$T_A = 25\text{ }^\circ\text{C}$	0.447	-	V
		$I_F = 8.0\text{ A}$		0.533	0.57	
		$I_F = 4.0\text{ A}$	$T_A = 125\text{ }^\circ\text{C}$	0.357	-	
		$I_F = 8.0\text{ A}$		0.472	0.49	
Maximum reverse current	I_R ⁽²⁾	$V_R = 30\text{ V}$	$T_A = 25\text{ }^\circ\text{C}$	55	200	μA
			$T_A = 125\text{ }^\circ\text{C}$	24	35	mA
Typical junction capacitance	C_J	4.0 V, 1 MHz		330	-	pF

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	SS8P2L	SS8P3L	UNIT
Typical thermal resistance	$R_{\theta JA}$ ⁽¹⁾	60		$^\circ\text{C/W}$
	$R_{\theta JL}$	3.5		

Note

(1) Units mounted on recommended PCB 1 oz. pad layout

ORDERING INFORMATION (Example)				
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
SS8P3L-M3/86A	0.1	86A	1500	7" diameter plastic tape and reel
SS8P3L-M3/87A	0.1	87A	6500	13" diameter plastic tape and reel
SS8P3LHM3_A/H ⁽¹⁾	0.1	H	1500	7" diameter plastic tape and reel
SS8P3LHM3_A/I ⁽¹⁾	0.1	I	6500	13" diameter plastic tape and reel

Note

(1) AEC-Q101 qualified



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

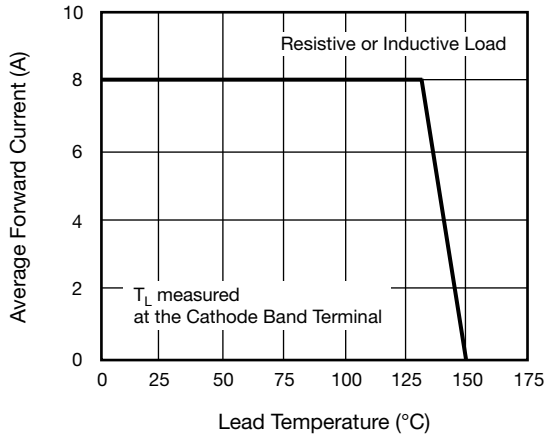


Fig. 1 - Maximum Forward Current Derating Curve

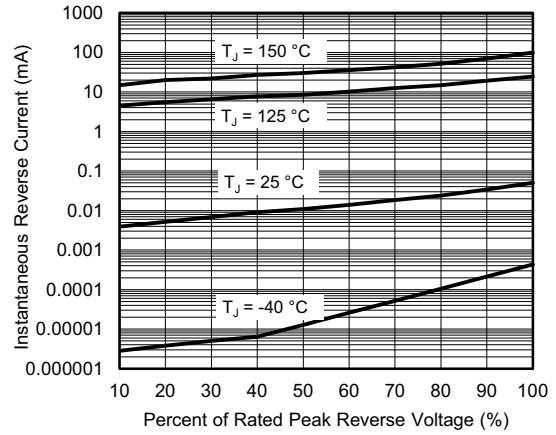


Fig. 4 - Typical Reverse Leakage Characteristics

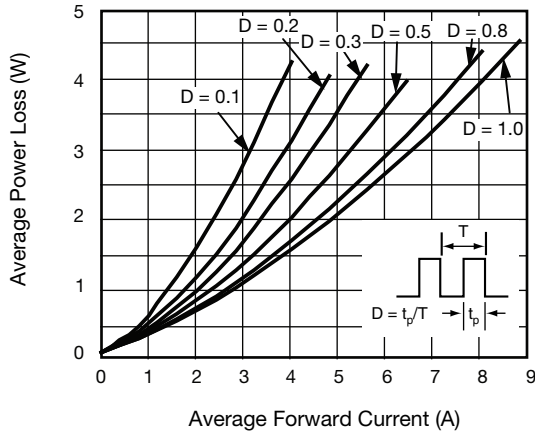


Fig. 2 - Forward Power Loss Characteristics

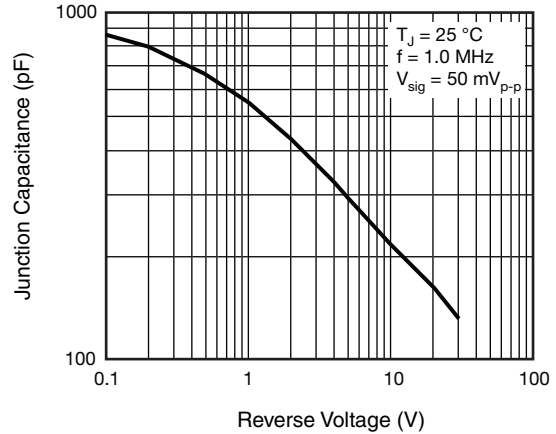


Fig. 5 - Typical Junction Capacitance

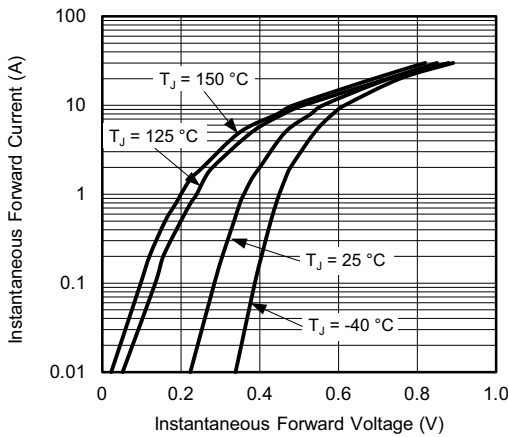


Fig. 3 - Typical Instantaneous Forward Characteristics

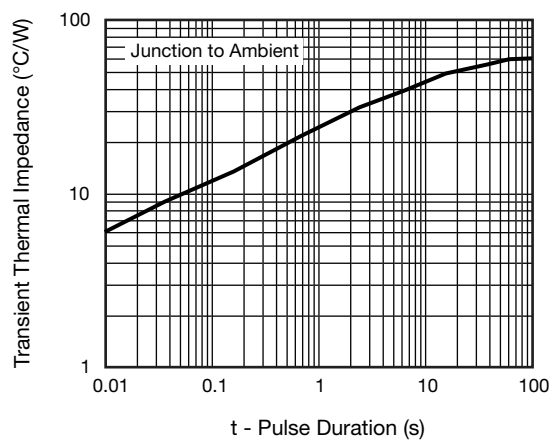
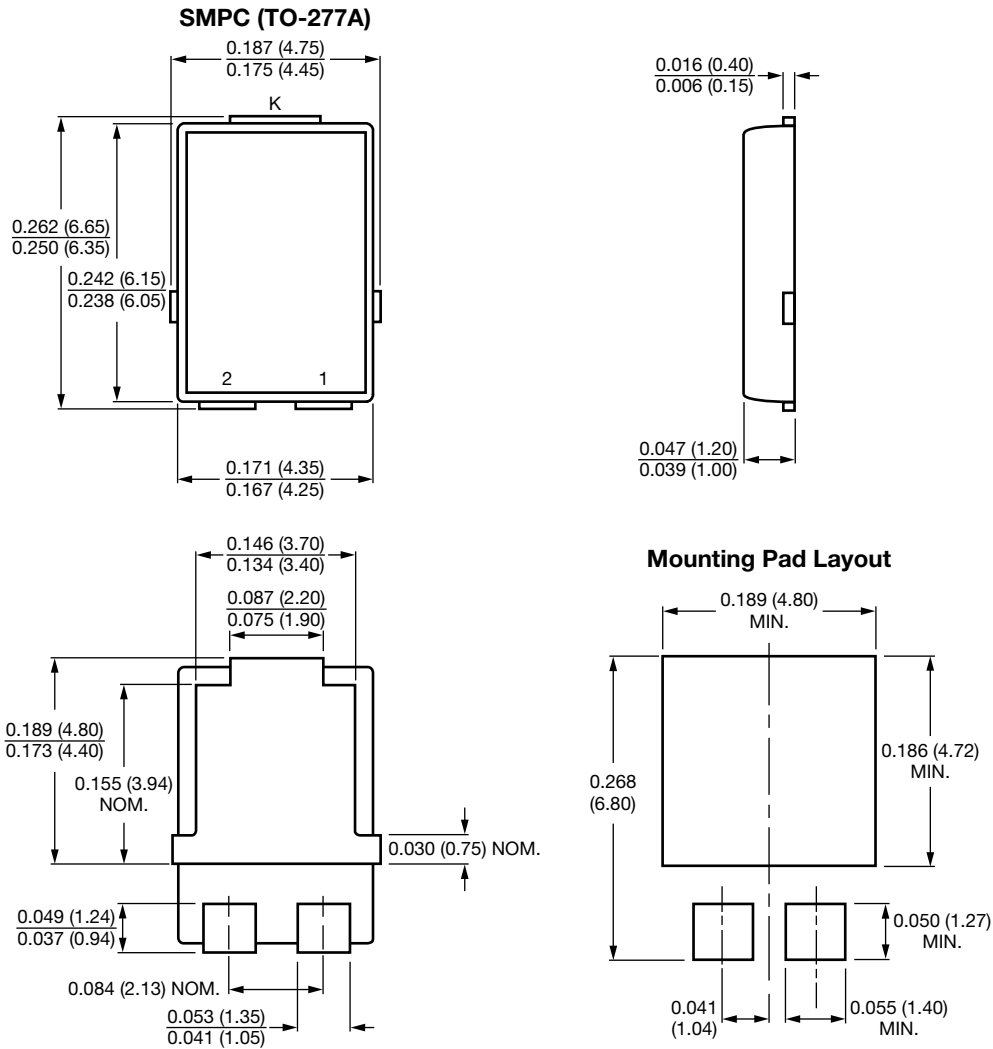


Fig. 6 - Typical Transient Thermal Impedance



PACKAGE OUTLINE DIMENSIONS in inches (millimeters)



Conform to JEDEC® TO-277A



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