ELECTRICAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	TEST CONDITIONS		TYP.	MAX.	UNIT
Maximum instantaneous forward voltage	V_F (1)	I_F = 4.0 A	T_A = 25 °C	0.447	-	V
		I_F = 8.0 A		0.533	0.57	
		I_F = 4.0 A	T_A = 125 °C	0.357	-	
		I_F = 8.0 A		0.472	0.49	
Maximum reverse current	$I_{R\ (2)}$	V_R = 30 V	T_A = 25 °C	55	200	μA
			T_A = 125 °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 ≤ 40 ms

THERMAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)				
PARAMETER	SYMBOL	SS8P2L	SS8P3L	UNIT
Typical thermal resistance	$R_{\theta JA}$ (1)	60		°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
SS8P3LHM3/86A (1)	0.1	86A	1500	7" diameter plastic tape and reel
SS8P3LHM3/87A (1)	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

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

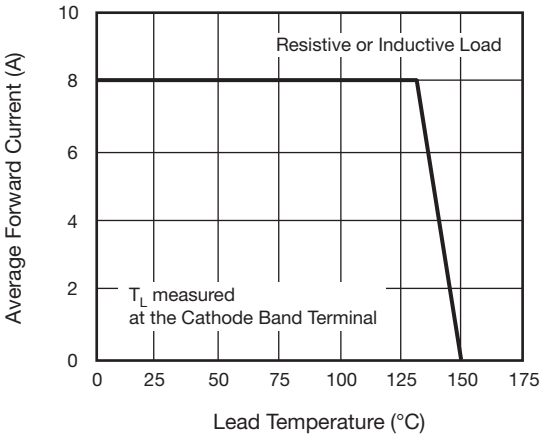

Fig. 1 - Maximum Forward Current Derating Curve

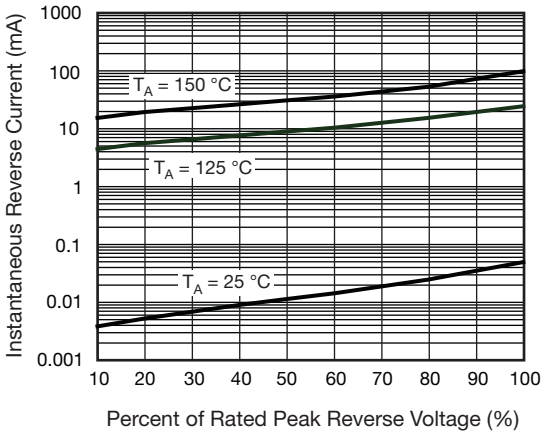

Fig. 4 - Typical Reverse Leakage Characteristics

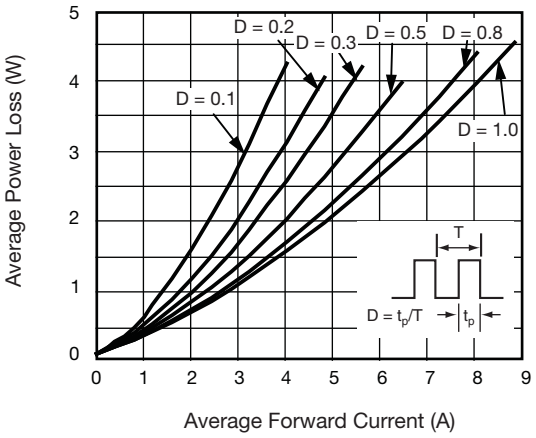

Fig. 2 - Forward Power Loss Characteristics

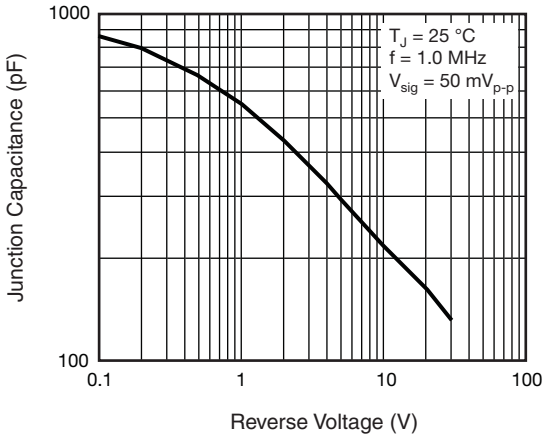

Fig. 5 - Typical Junction Capacitance

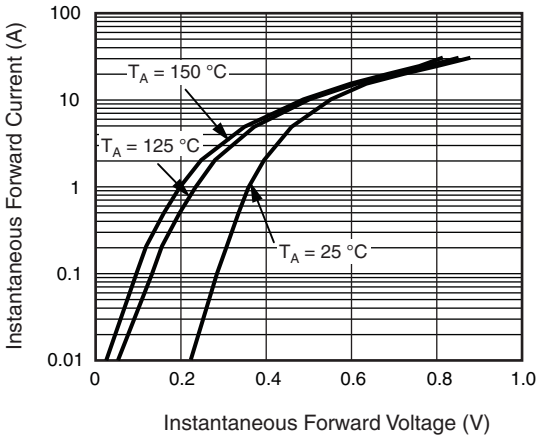

Fig. 3 - Typical Instantaneous Forward Characteristics

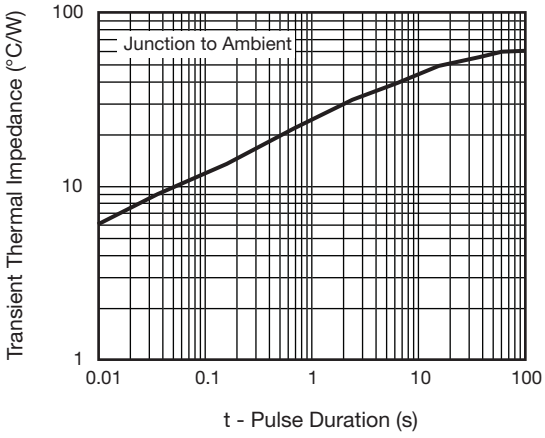

Fig. 6 - Typical Transient Thermal Impedance

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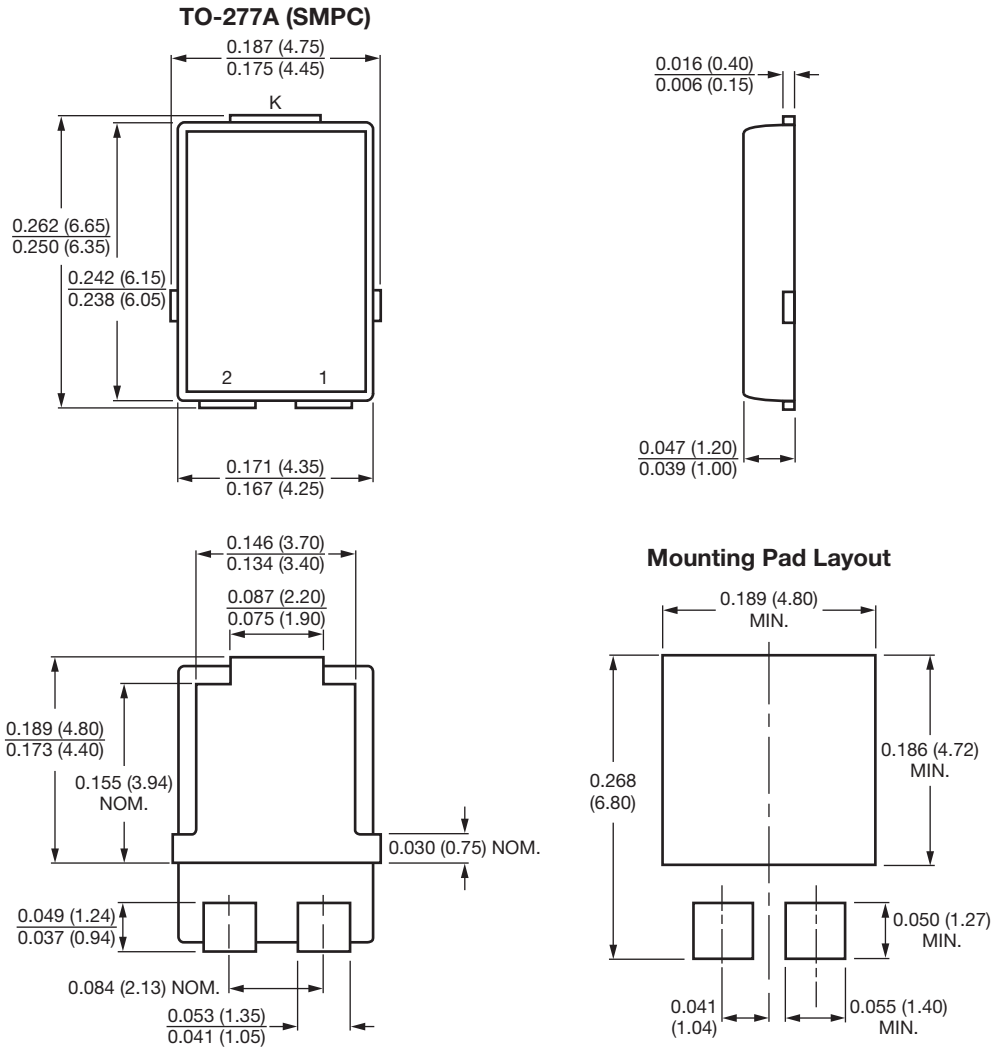
PACKAGE OUTLINE DIMENSIONS in inches (millimeters)



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