



ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT
Maximum instantaneous forward voltage	I _F = 6 A	T _A = 25 °C	V _F ⁽¹⁾	0.41	-	V
	I _F = 12 A			0.48	0.56	
	I _F = 6 A	T _A = 125 °C		0.30	-	
	I _F = 12 A			0.38	0.46	
Maximum reverse current	Rated V _R	T _A = 25 °C	I _R ⁽²⁾	150	1000	μA
		T _A = 125 °C		59	120	mA
Typical junction capacitance	4.0 V, 1 MHz		C _J	930	-	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 specified)				
PARAMETER	SYMBOL	SS12P2L	SS12P3L	UNIT
Typical thermal resistance	R _{θJA} ⁽¹⁾	60		°C/W
	R _{θJL}	3		

Note

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

ORDERING INFORMATION (Example)				
PREFERRED P/N	UNIT WEIGHT (g)	PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
SS12P3L-M3/86A	0.10	86A	1500	7" diameter plastic tape and reel
SS12P3L-M3/87A	0.10	87A	6500	13" diameter plastic tape and reel
SS12P3LHM3_A/H ⁽¹⁾	0.10	H	1500	7" diameter plastic tape and reel
SS12P3LHM3_A/I ⁽¹⁾	0.10	I	6500	13" diameter plastic tape and reel

Note

- (1) AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

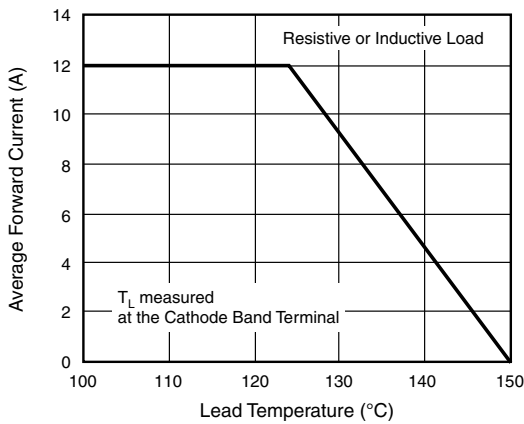


Fig. 1 - Maximum Forward Current Derating Curve

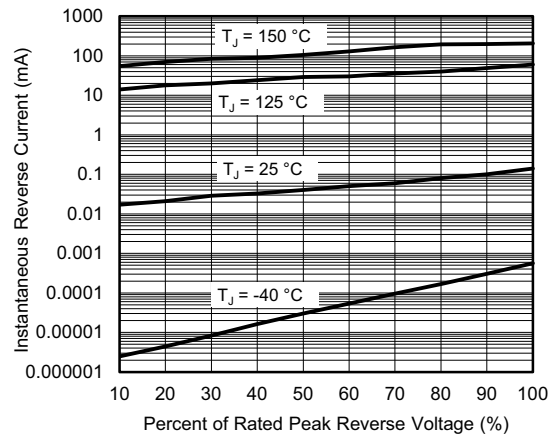


Fig. 4 - Typical Reverse Leakage Characteristics

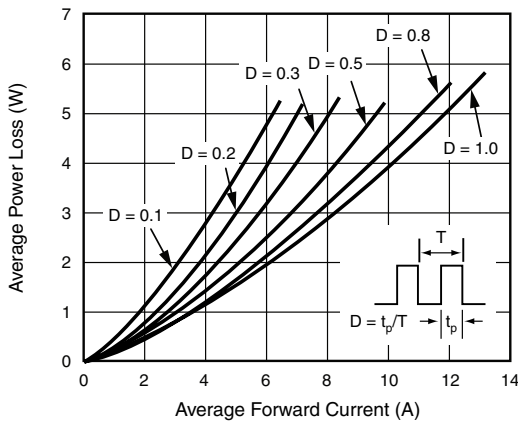


Fig. 2 - Forward Power Loss Characteristics

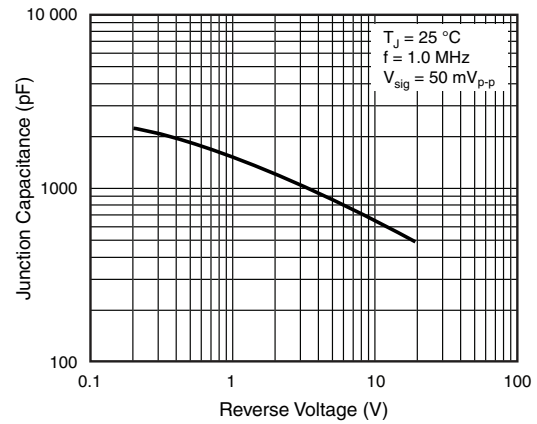


Fig. 5 - Typical Junction Capacitance

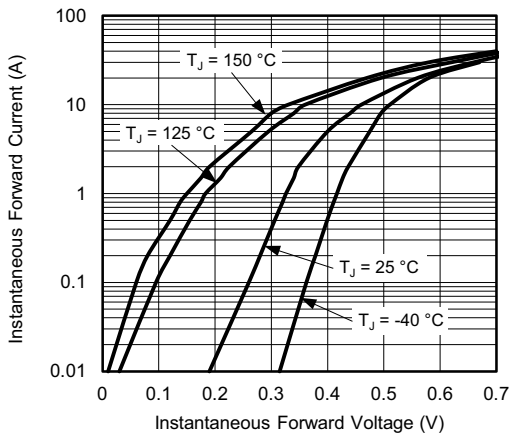


Fig. 3 - Typical Instantaneous Forward Characteristics

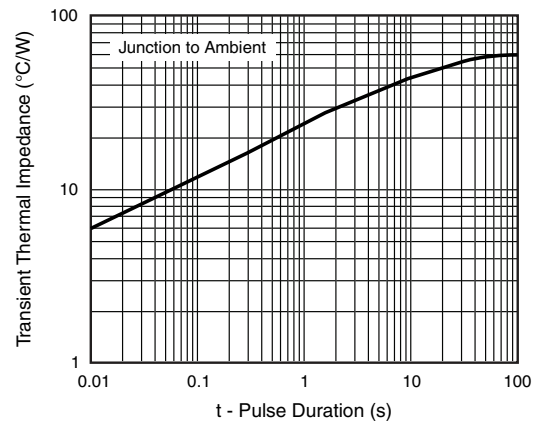
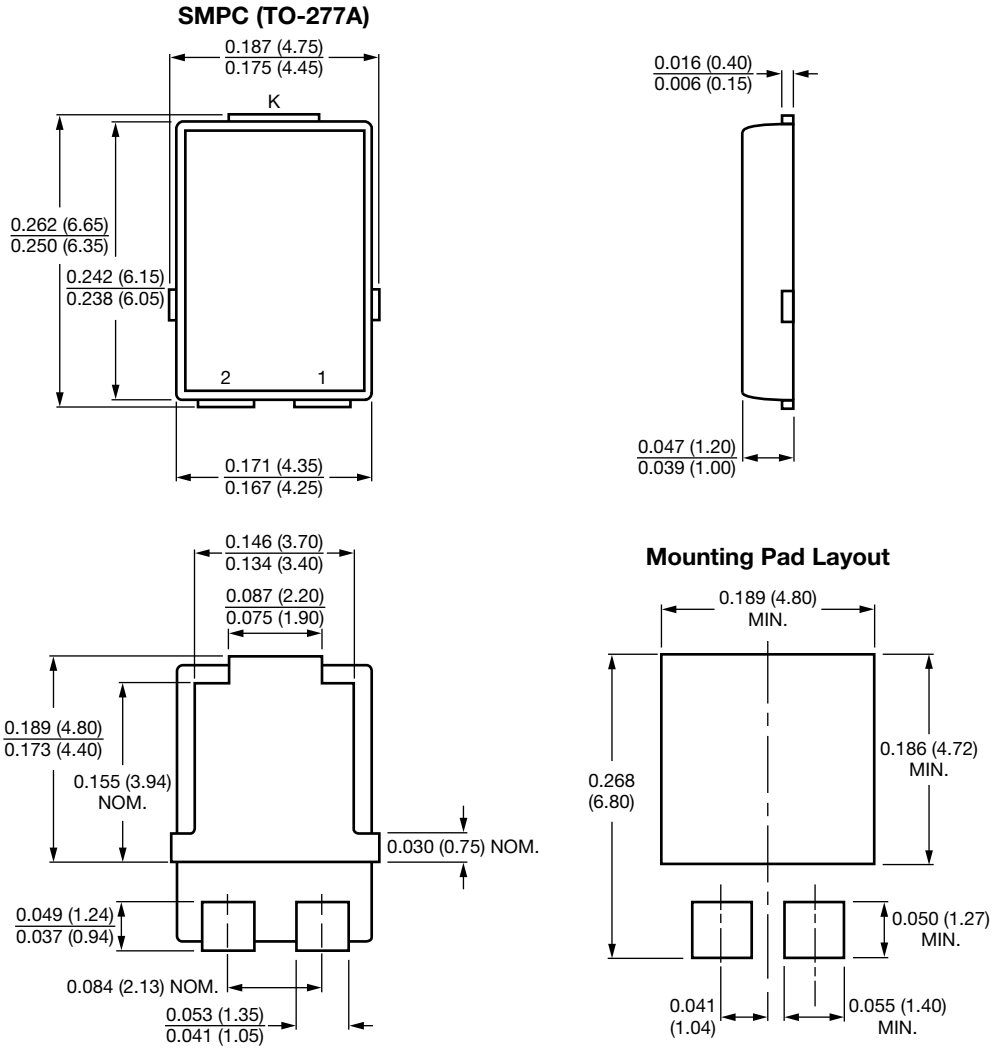


Fig. 6 - Typical Transient Thermal Impedance



PACKAGE OUTLINE DIMENSIONS in inches (millimeters)



Conform to JEDEC® TO-277A



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