



ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT
Instantaneous forward voltage	I _F = 4.0 A	T _A = 25 °C	V _F ⁽¹⁾	0.769	-	V
	I _F = 8.0 A			0.850	0.90	
	I _F = 4.0 A	T _A = 125 °C		0.634	-	
	I _F = 8.0 A			0.720	0.76	
Reverse current	Rated V _R	T _A = 25 °C	I _R ⁽²⁾	0.18	2.0	μA
		T _A = 125 °C		110	300	
Typical junction capacitance	4.0 V, 1 MHz		C _J	140	-	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 °C unless otherwise specified)				
PARAMETER	SYMBOL	SS8PH9	SS8PH10	UNIT
Typical thermal resistance	R _{θJA} ⁽¹⁾	65		°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
SS8PH10-M3/86A	0.10	86A	1500	7" diameter plastic tape and reel
SS8PH10-M3/87A	0.10	87A	6500	13" diameter plastic tape and reel
SS8PH10HM3/86A ⁽¹⁾	0.10	86A	1500	7" diameter plastic tape and reel
SS8PH10HM3/87A ⁽¹⁾	0.10	87A	6500	13" diameter plastic tape and reel
SS8PH10HM3_A/H ⁽¹⁾	0.10	H	1500	7" diameter plastic tape and reel
SS8PH10HM3_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)

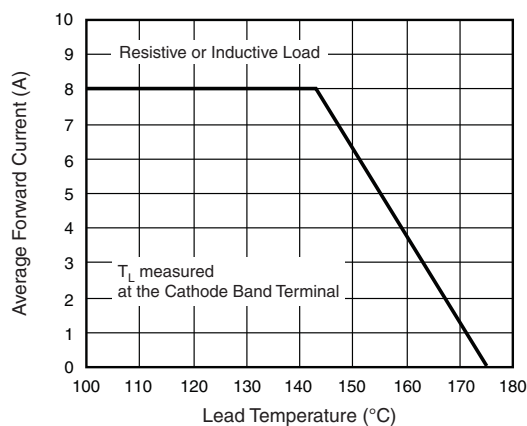


Fig. 1 - Maximum Forward Current Derating Curve

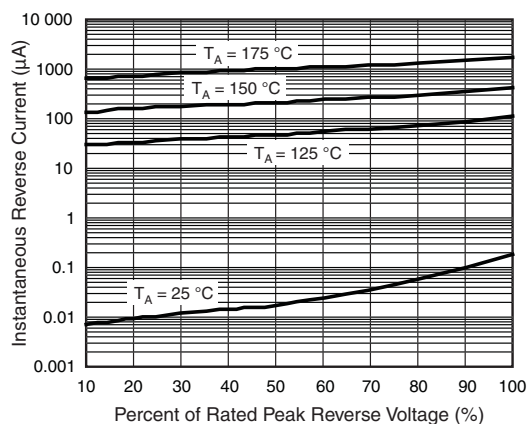


Fig. 4 - Typical Reverse Characteristics

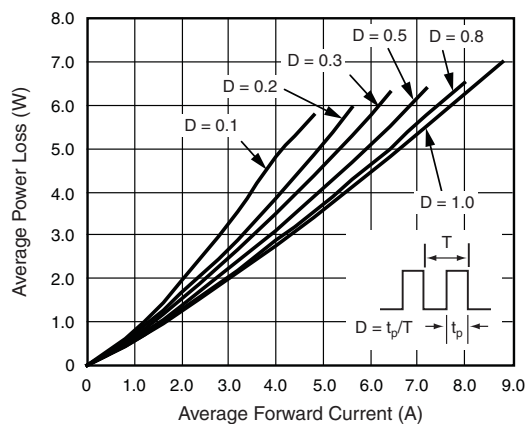


Fig. 2 - Forward Power Loss Characteristics

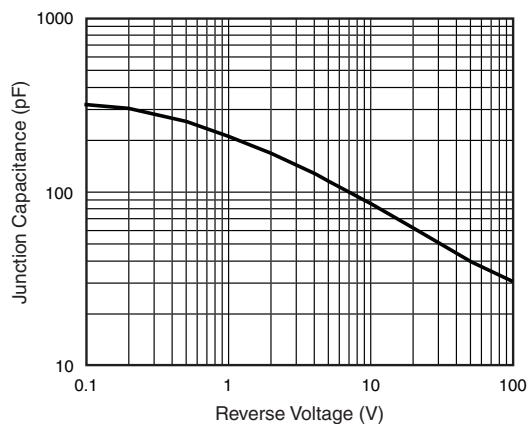


Fig. 5 - Typical Junction Capacitance

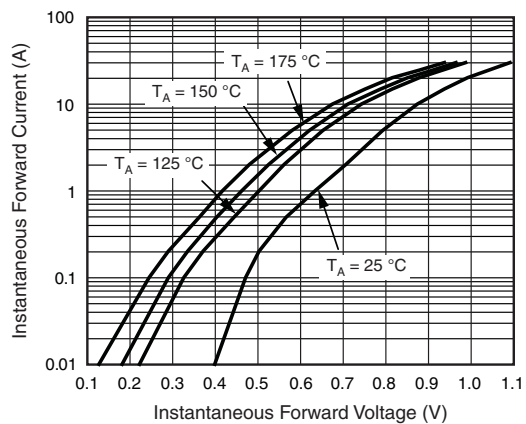


Fig. 3 - Typical Instantaneous Forward Characteristics

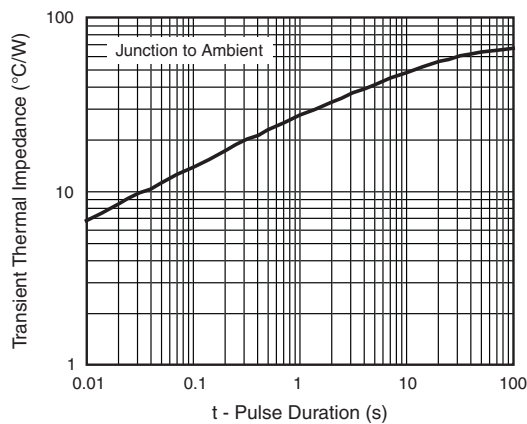
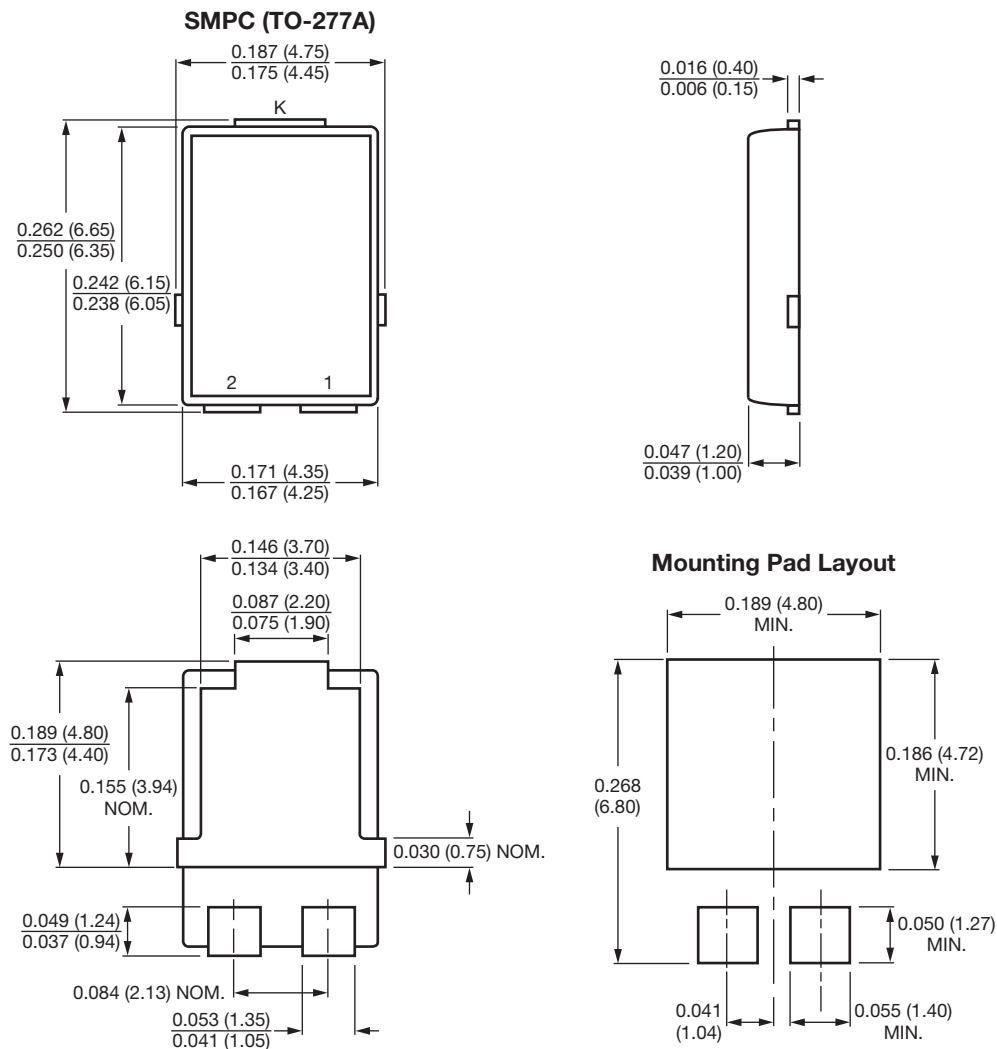


Fig. 6 - Typical Transient Thermal Impedance



PACKAGE OUTLINE DIMENSIONS in inches (millimeters)



Conform to JEDEC® TO-277A



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