ELECTRICAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)						
PARAMETER	**TEST CONDITIONS**		**SYMBOL**	**TYP.**	**MAX.**	**UNIT**
Maximum instantaneous forward voltage	I_F = 0.5 A	T_J = 25 °C	V_F (1)	0.45	-	V
	I_F = 1.0 A			0.56	0.68	
	I_F = 0.5 A	T_J = 125 °C		0.40	-	
	I_F = 1.0 A			0.52	0.60	
Maximum reverse current	Rated V_R	T_J = 25 °C	I_R (2)	20	150	µA
		T_J = 125 °C		7.0	12	mA
Typical junction capacitance	4.0 V, 1 MHz		C_J	40	-	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**	**MSS1P5**	**MSS1P6**	**UNIT**
Typical thermal resistance	$R_{\theta JA}$ (1)	125		°C/W
	$R_{\theta JL}$ (1)	30		
	$R_{\theta JC}$ (1)	40		

Note

(1) Thermal resistance from junction to ambient and junction to lead mounted on PCB with 6.0 mm x 6.0 mm copper pad areas $R_{\theta JL}$ is measured at the terminal of cathode band. $R_{\theta JC}$ is measured at the top center of the body

ORDERING INFORMATION (Example)				
PREFERRED P/N	**UNIT WEIGHT (g)**	**PREFERRED PACKAGE CODE**	**BASE QUANTITY**	**DELIVERY MODE**
MSS1P6-M3/89A	0.006	89A	4500	7" diameter plastic tape and reel
MSS1P6HM3_A/H (1)	0.006	H	4500	7" diameter plastic tape and reel

Note

(1) AEC-Q101 qualified

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

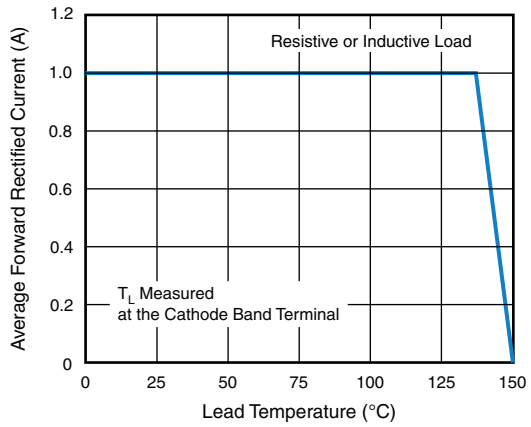


Fig. 1 - Maximum Forward Current Derating Curve

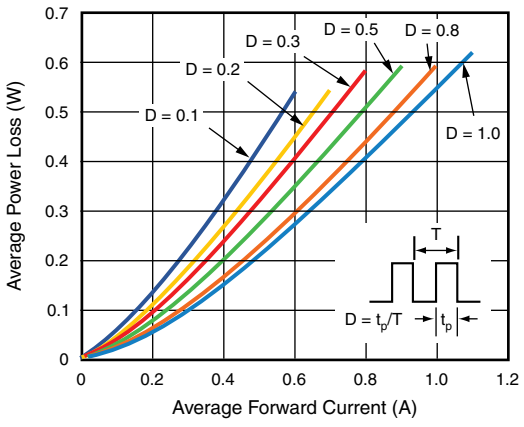


Fig. 2 - Forward Power Loss Characteristics

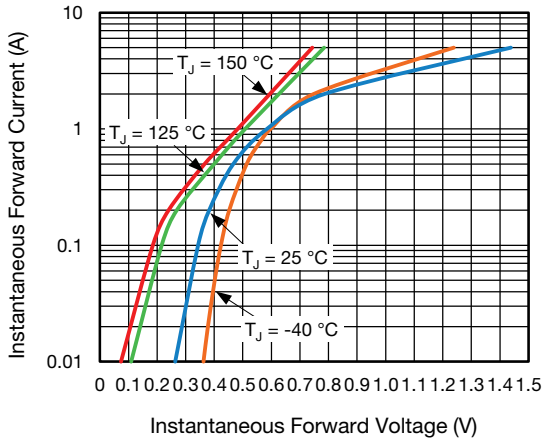


Fig. 3 - Typical Instantaneous Forward Characteristics

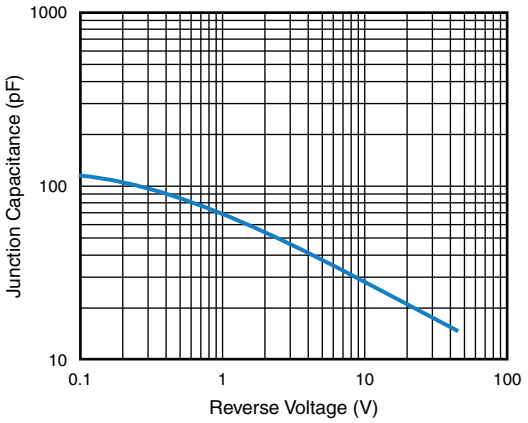


Fig. 5 - Typical Junction Capacitance

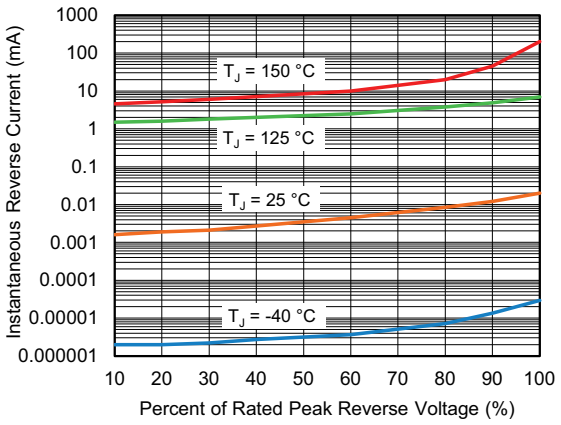


Fig. 4 - Typical Reverse Characteristics

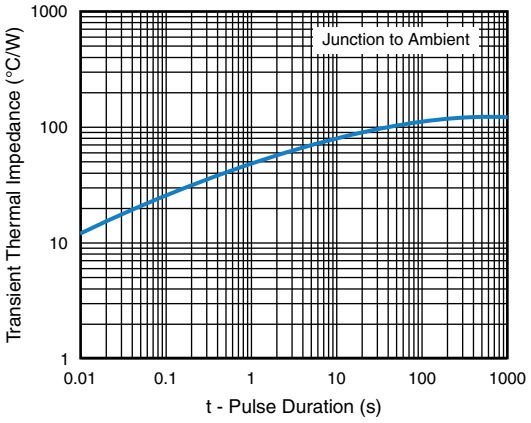
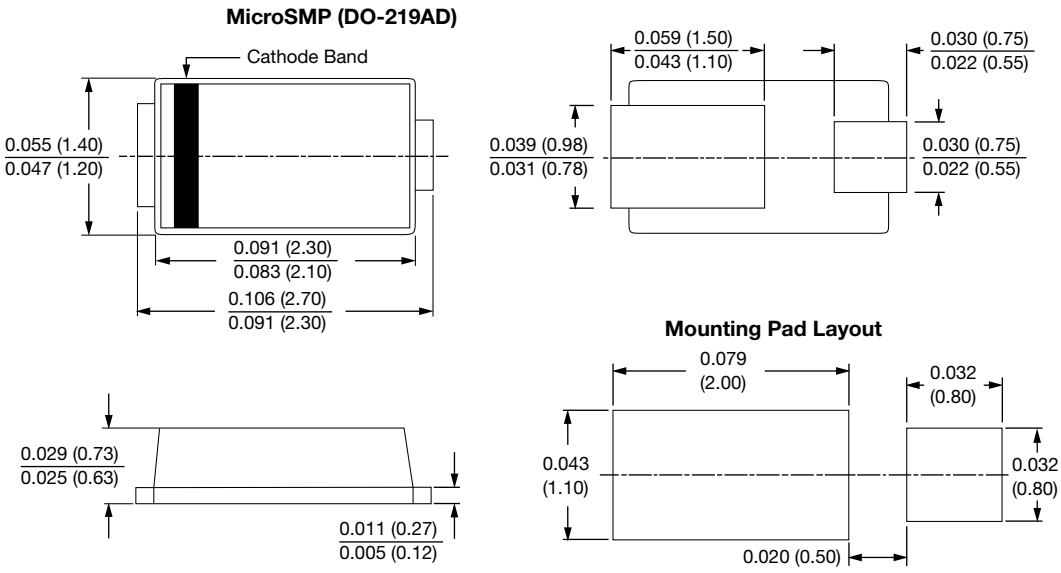


Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)



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