



ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)							
PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT	
Maximum instantaneous forward voltage	$I_F = 1.5\text{ A}$	$T_A = 25\text{ }^{\circ}\text{C}$	$V_F^{(1)}$	0.464	-	V	
	$I_F = 3.0\text{ A}$			0.542	0.60		
	$I_F = 1.5\text{ A}$	$T_A = 125\text{ }^{\circ}\text{C}$		0.379	-		
	$I_F = 3.0\text{ A}$			0.478	0.54		
Maximum reverse current	Rated V_R	$T_A = 25\text{ }^{\circ}\text{C}$	$I_R^{(2)}$	8.4	150	μA	
		$T_A = 125\text{ }^{\circ}\text{C}$		3.4	15	mA	
Typical junction capacitance	4.0 V, 1 MHz		C_J	200	-	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 specified)				
PARAMETER	SYMBOL	SS3P5L	SS3P6L	UNIT
Typical thermal resistance	$R_{\theta JA}^{(1)}$	65		$^{\circ}\text{C/W}$
	$R_{\theta JL}$	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
SS3P5L-M3/86A	0.10	86A	1500	7" diameter plastic tape and reel
SS3P5L-M3/87A	0.10	87A	6500	13" diameter plastic tape and reel
SS3P5LHM3/86A ⁽¹⁾	0.10	86A	1500	7" diameter plastic tape and reel
SS3P5LHM3/87A ⁽¹⁾	0.10	87A	6500	13" diameter plastic tape and reel
SS3P5LHM3_A/H ⁽¹⁾	0.10	H	1500	7" diameter plastic tape and reel
SS3P5LHM3_A/I ⁽¹⁾	0.10	I	6500	13" diameter plastic tape and reel

Note

(1) AEC-Q101 qualified

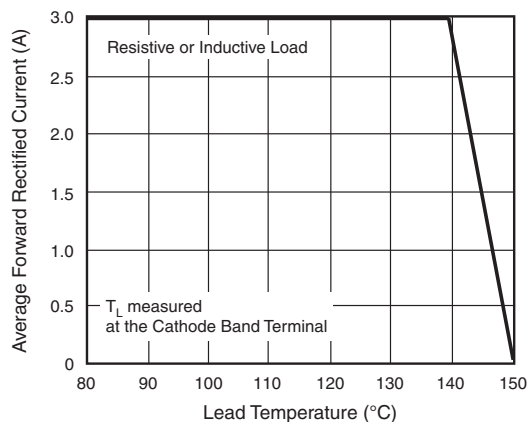
RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)


Fig. 1 - Maximum Forward Current Derating Curve

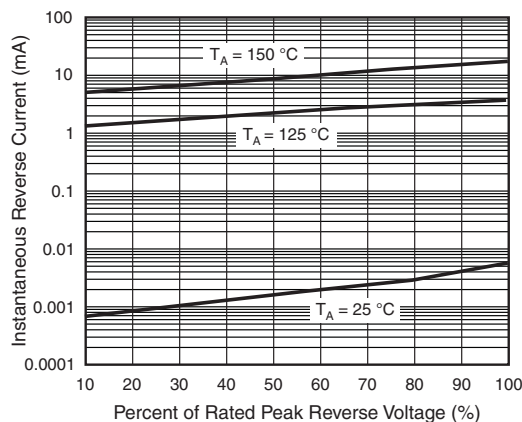


Fig. 4 - Typical Reverse Characteristics

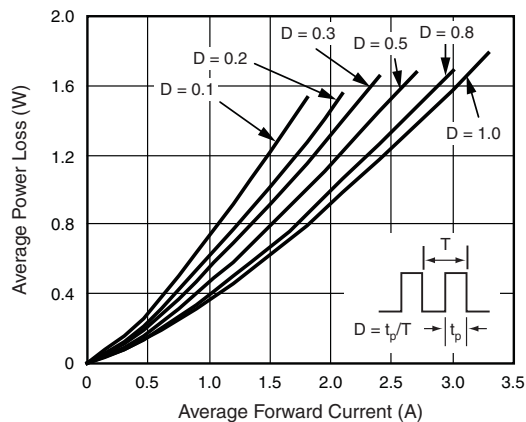


Fig. 2 - Forward Power Loss Characteristics

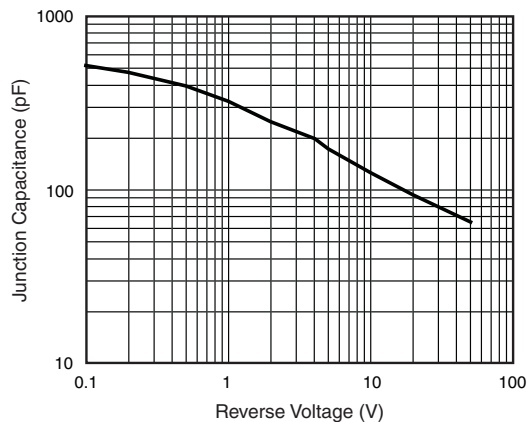


Fig. 5 - Typical Junction Capacitance

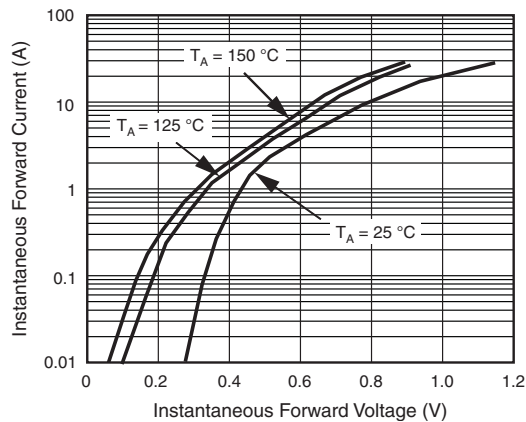


Fig. 3 - Typical Instantaneous Forward Characteristics

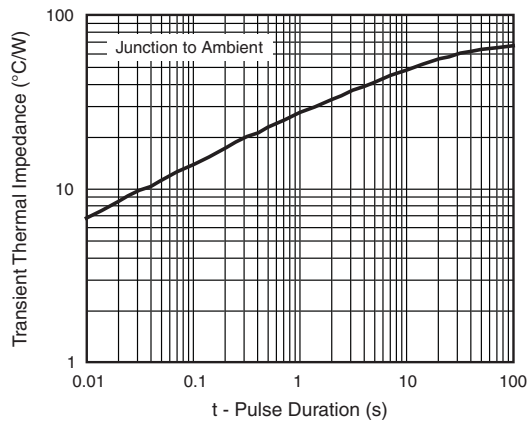
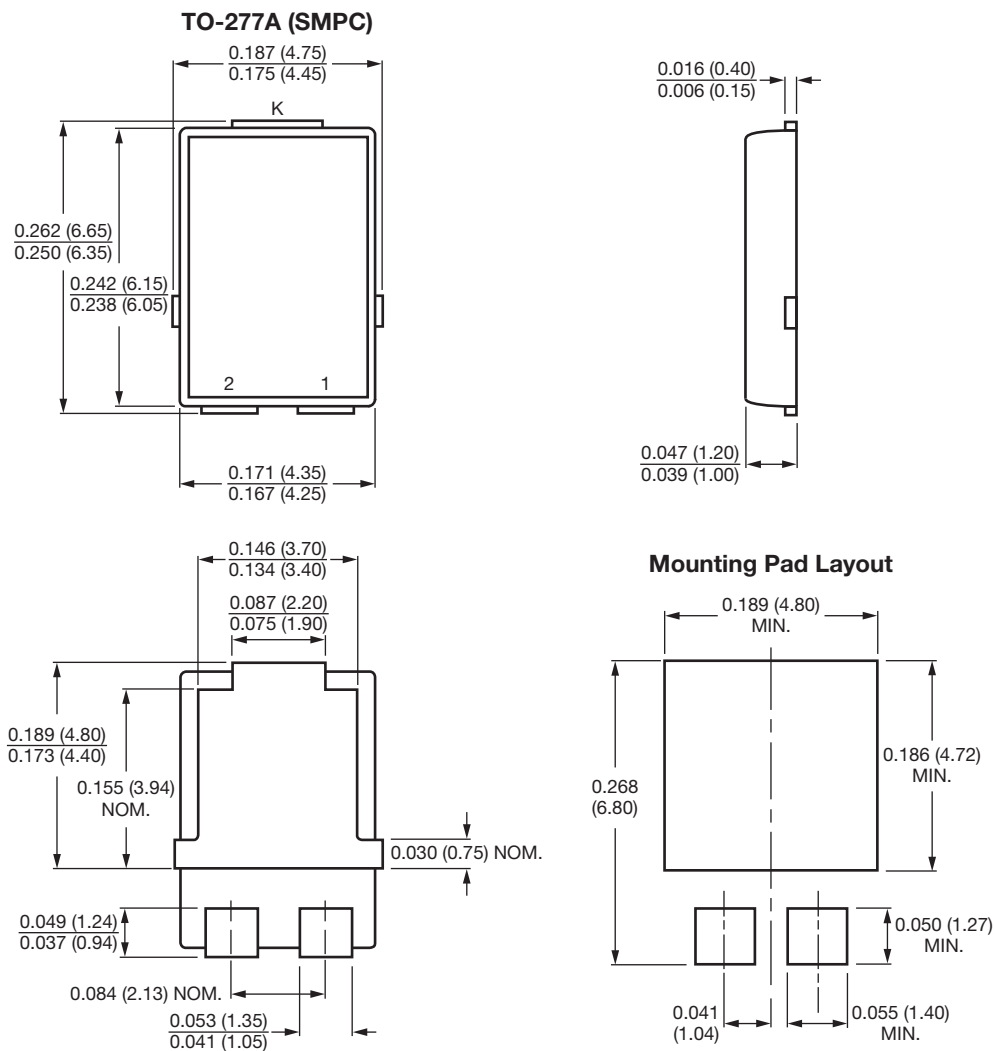


Fig. 6 - Typical Transient Thermal Impedance



PACKAGE OUTLINE DIMENSIONS in inches (millimeters)





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