

SS5P3 & SS5P4

Vishay General Semiconductor



ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)					
PARAMETER	TEST CONDITIONS	SYMBOL	TYP	MAX.	UNIT
Maximum instantaneous forward voltage ⁽¹⁾	at $I_F = 2.5\text{ A}$ at $I_F = 5.0\text{ A}$ $T_J = 25\text{ }^{\circ}\text{C}$	V_F	0.416 0.476	- 0.52	V
	at $I_F = 2.5\text{ A}$ at $I_F = 5.0\text{ A}$ $T_J = 125\text{ }^{\circ}\text{C}$		0.312 0.403	- 0.45	
Maximum reverse current ⁽¹⁾	at rated V_R $T_J = 25\text{ }^{\circ}\text{C}$ $T_J = 125\text{ }^{\circ}\text{C}$	I_R	61.8 26.7	250 40	μA mA
Typical junction capacitance	at 4.0 V, 1 MHz	C_J	280	-	pF

Note:(1) Pulse test: 300 μs pulse width, 1 % duty cycle

THERMAL CHARACTERISTICS ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)				
PARAMETER	SYMBOL	SS5P3	SS5P4	UNIT
Typical thermal resistance	$R_{\theta JA}$ ⁽¹⁾	60		$^{\circ}\text{C/W}$
	$R_{\theta JL}$	3		

Note:

(1) Units mounted on recommended P.C.B. 1 oz. pad layout

ORDERING INFORMATION (Example)				
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE
SS5P4-E3/86A	0.10	86A	1500	7" Diameter Plastic Tape & Reel
SS5P4-E3/87A	0.10	87A	6500	13" Diameter Plastic Tape & Reel

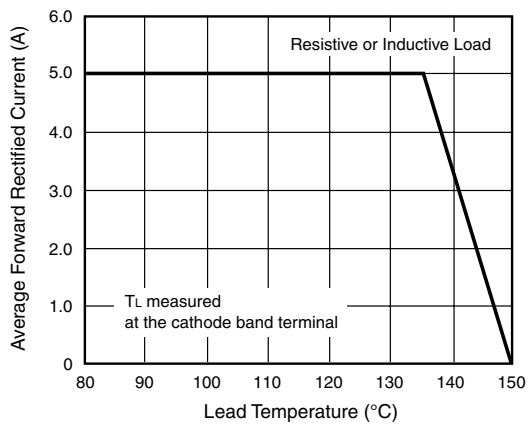
RATINGS AND CHARACTERISTICS CURVES($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)

Figure 1. Maximum Forward Current Derating Curve

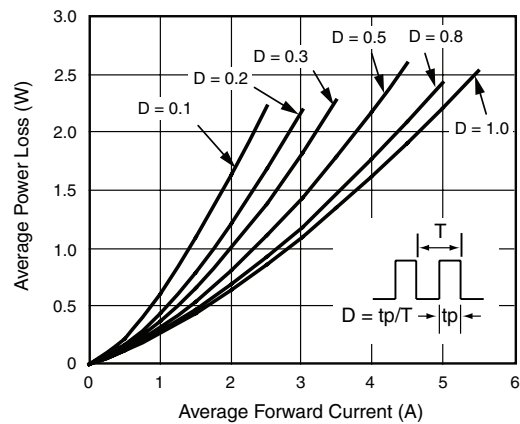


Figure 2. Forward Power Loss Characteristics

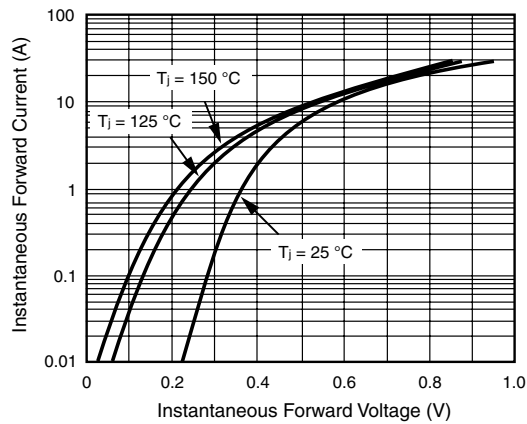


Figure 3. Typical Instantaneous Forward Characteristics

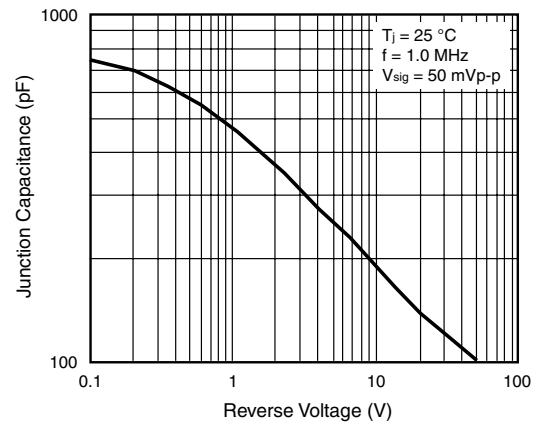


Figure 5. Typical Junction Capacitance

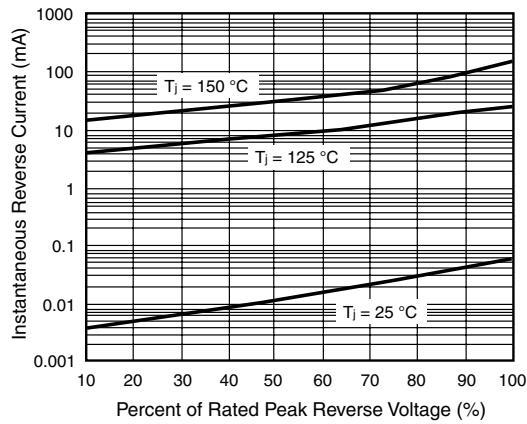


Figure 4. Typical Reverse Leakage Characteristics

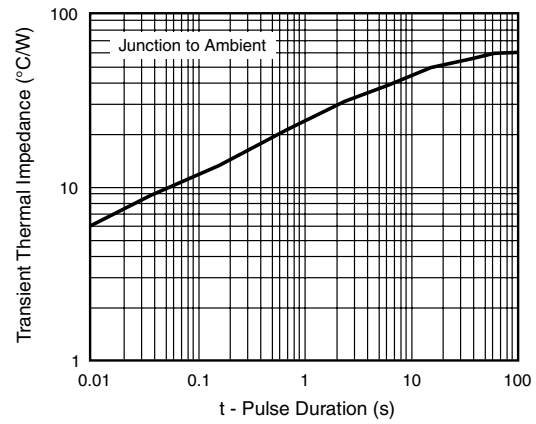
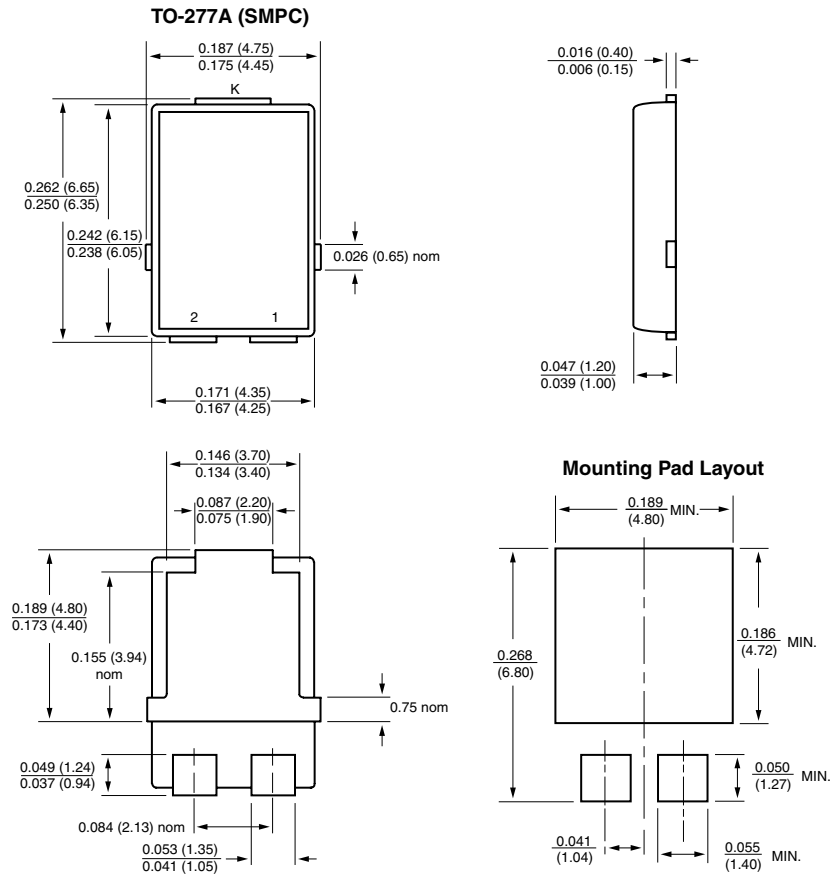


Figure 6. Typical Transient Thermal Impedance

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**PACKAGE OUTLINE DIMENSIONS** in inches (millimeters)

Conform to JEDEC TO-277A



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