

SS10P3 & SS10P4

Vishay General Semiconductor



ELECTRICAL CHARACTERISTICS ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)					
PARAMETER	TEST CONDITIONS	SYMBOL	TYP.	MAX.	UNIT
Instantaneous forward voltage ⁽¹⁾	at $I_F = 5\text{ A}$ at $I_F = 10\text{ A}$ $T_j = 25\text{ }^{\circ}\text{C}$	V_F	0.406 0.469	- 0.51	V
	at $I_F = 5\text{ A}$ at $I_F = 10\text{ A}$ $T_j = 125\text{ }^{\circ}\text{C}$		0.298 0.384	- 0.45	
Reverse current ⁽¹⁾	at rated V_R $T_j = 25\text{ }^{\circ}\text{C}$ $T_j = 125\text{ }^{\circ}\text{C}$	I_R	89 53	300 80	μA mA
Typical junction capacitance	at 4.0 V, 1 MHz	C_J	750	-	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	SS10P3	SS10P4	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
SS10P4-E3/86A	0.10	86A	1500	7" Diameter Plastic Tape & Reel
SS10P4-E3/87A	0.10	87A	6500	13" Diameter Plastic Tape & Reel

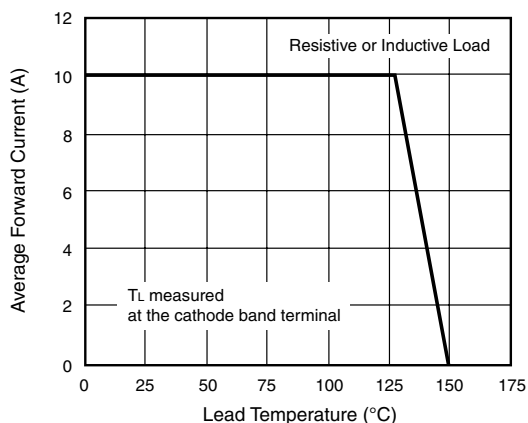
RATINGS AND CHARACTERISTICS CURVES($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)

Figure 1. Maximum Forward Current Derating Curve

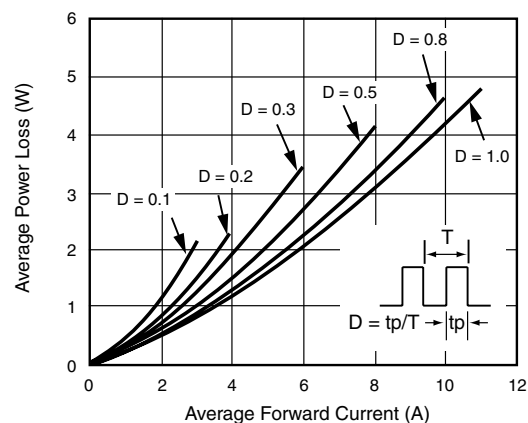


Figure 2. Forward Power Loss Characteristics

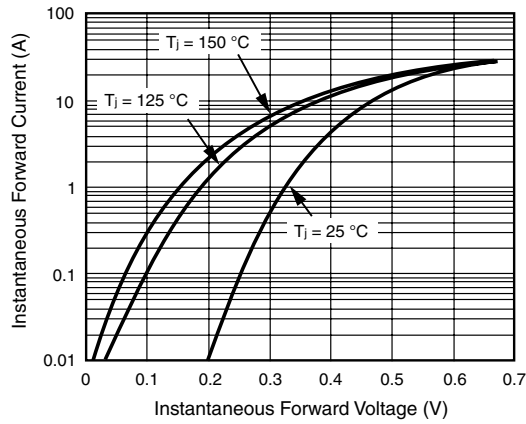


Figure 3. Typical Instantaneous Forward Characteristics

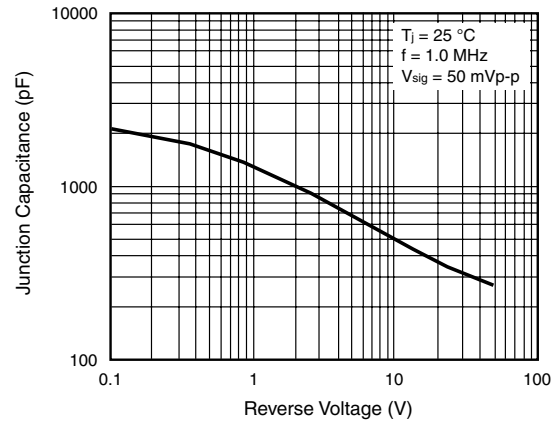


Figure 5. Typical Junction Capacitance

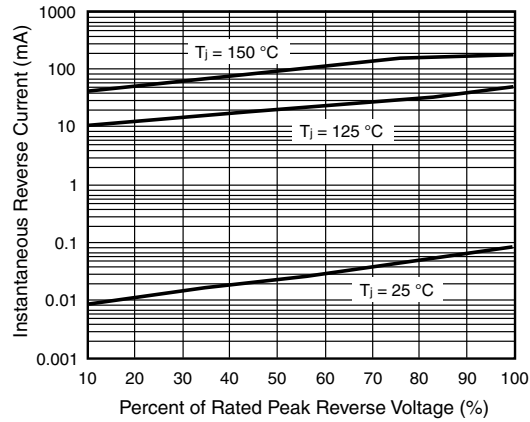


Figure 4. Typical Reverse Leakage Characteristics

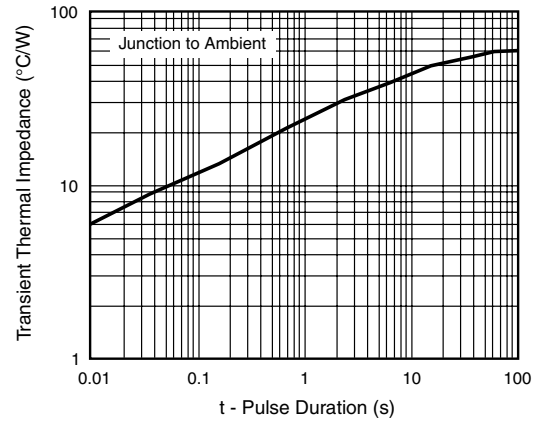
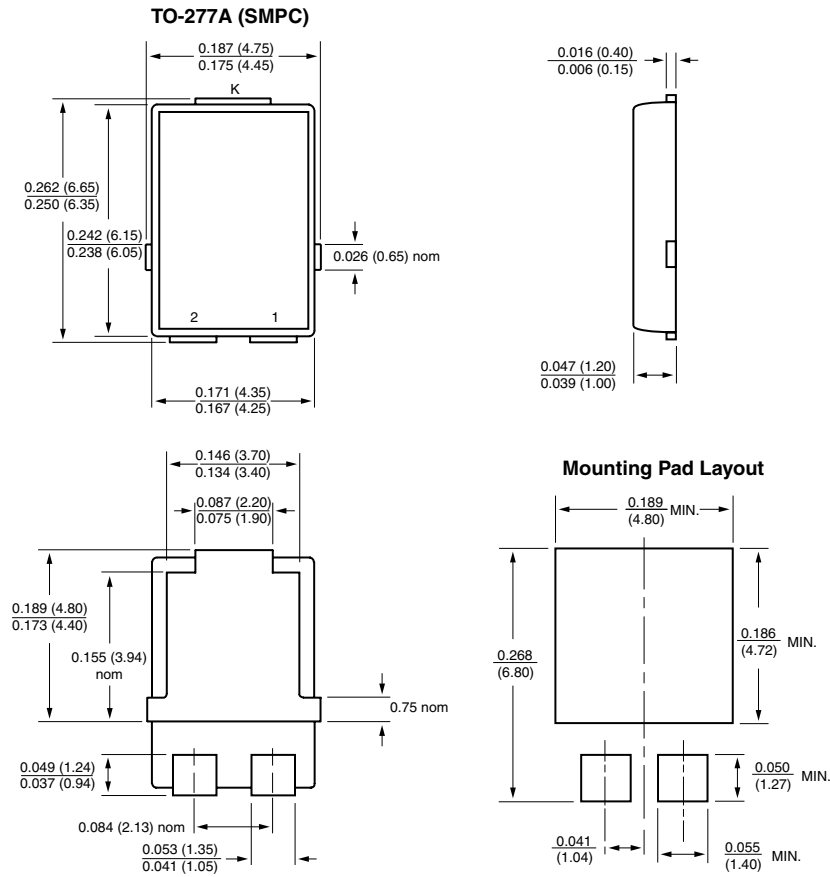


Figure 6. Typical Transient Thermal Impedance

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

Conform to JEDEC TO-277A



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