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Vishay General Semiconductor

ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)									
PARAMETER	TEST CONDITIONS		SYMBOL	SS1P3L	SS1P4L	UNIT			
Maximum instantaneous forward voltage	I _F = 1.0 A	T _J = 25 °C	V _F ⁽¹⁾	0.45	0.48	V			
	I _F = 1.0 A	T _J = 125 °C		0.35	0.38				
Maximum various survent at vated V		T _J = 25 °C	I _R ⁽²⁾	200	150	μΑ			
Maximum reverse current at rated V _R		T _J = 125 °C		20	15	mA			
Typical junction capacitance	4.0 V, 1 MHz		CJ	110	130	pF			

Notes

 $^{(1)}$ Pulse test: 300 μs pulse width, 1 % duty cycle

 $^{(2)}$ Pulse test: Pulse width \leq 40 ms

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	SS1P3L	SS1P4L	UNIT		
	R _{θJA} ⁽¹⁾	105		°C/W		
Typical thermal resistance	R _{0JL} (1)	15				
	R ₀ JC (1)	2	0			

Note

(1) Thermal resistance from junction to ambient and junction to lead mounted on PCB with 5.0 mm x 5.0 mm copper pad areas. R_{0JL} is measured at the terminal of cathode band. R_{0JC} 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			
SS1P3L-M3/84A	0.024	84A	3000	7" diameter plastic tape and reel			
SS1P3L-M3/85A	0.024	85A	10 000	13" diameter plastic tape and reel			
SS1P3LHM3/84A (1)	0.024	84A	3000	7" diameter plastic tape and reel			
SS1P3LHM3/85A (1)	0.024	85A	10 000	13" diameter plastic tape and reel			

Note

(1) Automotive grade



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

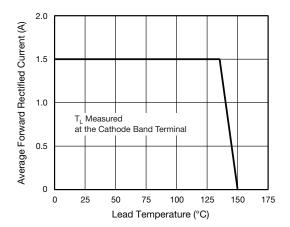


Fig. 1 - Maximum Forward Current Derating Curve

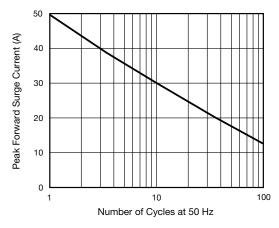


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

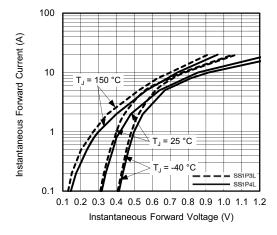


Fig. 3 - Typical Instantaneous Forward Characteristics

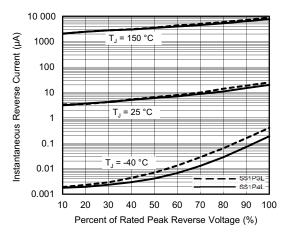


Fig. 4 - Typical Reverse Leakage Characteristics

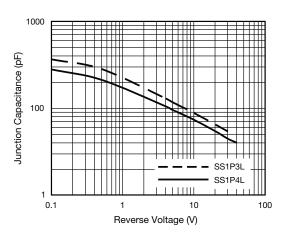


Fig. 5 - Typical Junction Capacitance

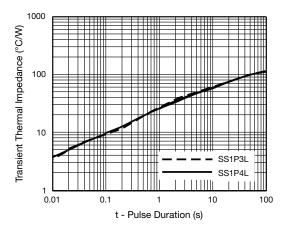


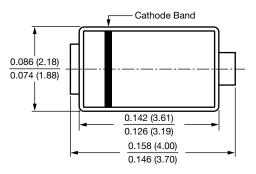
Fig. 6 - Typical Transient Thermal Impedance

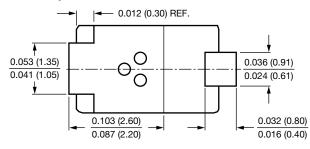


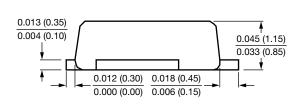
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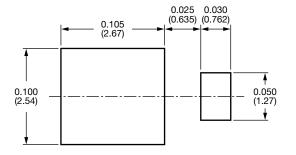
PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

SMP (DO-220AA)











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