

RS1A, RS1B, RS1D, RS1G, RS1J, RS1K

Vishay General Semiconductor

ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)									
PARAMETER	TEST CONDITIONS	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	UNIT
Maximum instantaneous forward voltage	1.0 A	V _F	1.3				V		
Maximum DC reverse current at rated DC blocking voltage	T _A = 25 °C T _A = 125 °C	- I _R	5.0					μΑ	
Maximum reverse recovery time	$I_F = 0.5 A$, $I_R = 1.0 A$, $I_{rr} = 0.25 A$	t _{rr}	150 250			250	500	ns	
Typical junction capacitance	4.0 V, 1 MHz	CJ	10 7.0			pF			

THERMAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)								
PARAMETER SYMBOL RS1A RS1B RS1D RS1G RS1J RS		RS1K	UNIT					
Typical thermal resistance	R _{0JA} (1)	105						
Typical thermal resistance	R _{0JL} (1)	32						°C/W

Note

⁽¹⁾ Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

ORDERING INFORMATION (Example)								
PREFERRED P/N	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
RS1J-E3/61T	0.064	61T	1800	7" diameter plastic tape and reel				
RS1J-E3/5AT	0.064	5AT	7500	13" diameter plastic tape and reel				
RS1JHE3_A/H (1)	0.064	Н	1800	7" diameter plastic tape and reel				
RS1JHE3_A/I (1)	0.064	I	7500	13" diameter plastic tape and reel				
RS1J-M3/61T	0.064	61T	1800	7" diameter plastic tape and reel				
RS1J-M3/5AT	0.064	5AT	7500	13" diameter plastic tape and reel				
RS1JHM3_A/H (1)	0.064	Н	1800	7" diameter plastic tape and reel				
RS1JHM3_A/I (1)	0.064	I	7500	13" diameter plastic tape and reel				

Note

⁽¹⁾ AEC-Q101 qualified

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

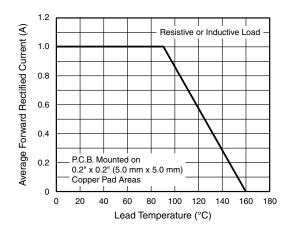


Fig. 1 - Forward Current Derating Curve

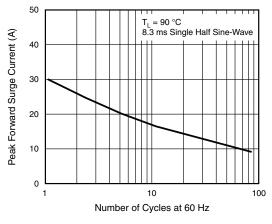


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

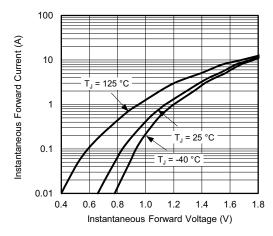
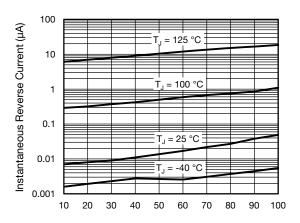


Fig. 3 - Typical Instantaneous Forward Characteristics



Percent of Rated Peak Reverse Voltage (%)
Fig. 4 - Typical Reverse Characteristics

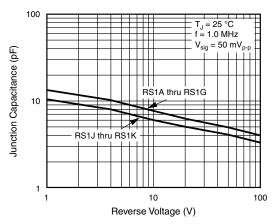


Fig. 5 - Typical Junction Capacitance

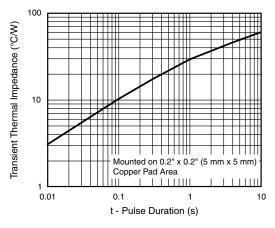


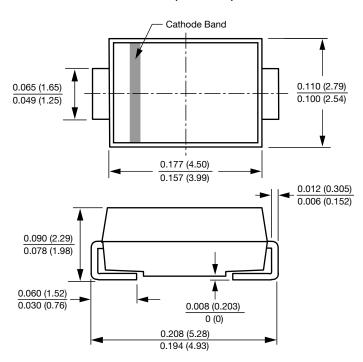
Fig. 6 - Typical Transient Thermal Impedance

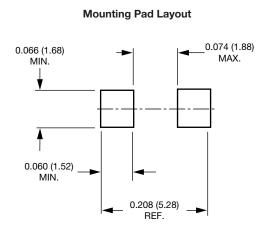
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PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

SMA (DO-214AC)







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