RS1A, RS1B, RS1D, RS1G, RS1J, RS1K

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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		T _A = 25 °C	I_	5.0						μΑ
rated DC blocking voltage		T _A = 125 °C	I _R	50						
Maximum reverse recovery time	$I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A}, I_{rr} = 0.25 \text{ A}$		t _{rr}	150			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 RS1K		RS1K	UNIT				
Typical thermal resistance	R _{0JA} (1)	105						°C/W
Typical thermal resistance	R ₀ JL (1)	32						

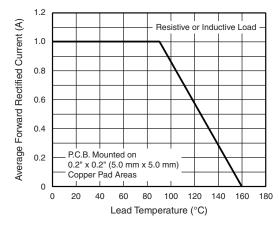
Note

⁽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				

Note

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





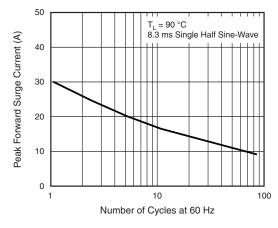


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

⁽¹⁾ AEC-Q101 qualified

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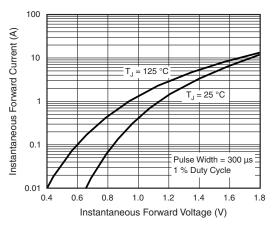


Fig. 3 - Typical Instantaneous Forward Characteristics

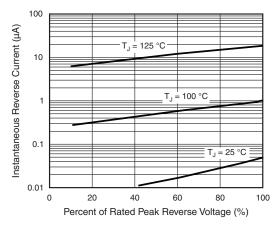


Fig. 4 - Typical Reverse Characteristics

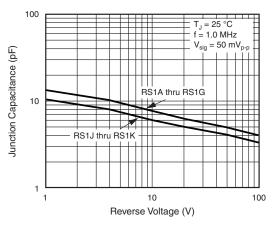


Fig. 5 - Typical Junction Capacitance

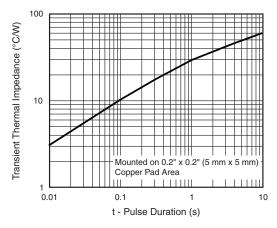
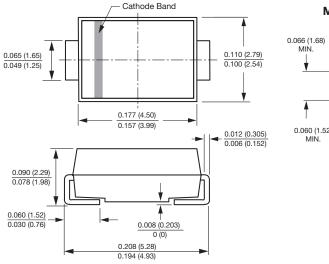


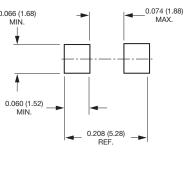
Fig. 6 - Typical Transient Thermal Impedance

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

DO-214AC (SMA)



Mounting Pad Layout



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