

FAST RECOVERY RECTIFIERS

FEATURES

High current capability

High reliability

Low reverse current

Low forward voltage drop

Fast switching for high efficiency

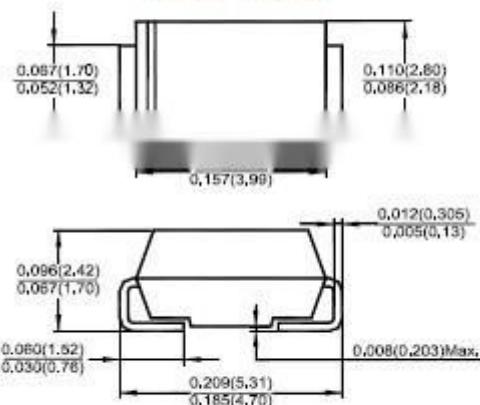
MECHANICAL DATA

SMA (DO-214AC) molded plastic

Polarity: Color band denotes cathode end

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RS1A--RS1M



Dimensions In Inches and (millimeters)
DO-214AC (SMA)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current at T _a = 90 °C	I _{F(AV)}				1				A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}				35				A
Maximum Forward Voltage at I _F = 1A	V _F				1.3				V

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Maximum Reverse Recovery Time ¹⁾	t _{rr}	150	250	500	ns
Typical Junction Capacitance ²⁾	C _J	50			pF
Operating and Storage Temperature Range	T _J T _S	- 65 to + 150			°C

1) Reverse recovery test conditions IF = 0.5 A, IR = 1 A, Irr = 0.25 A.

2) Measured at 1 MHz and applied reverse voltage of 4 V.



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