

FAST RECOVERY RECTIFIERS

FEATURES

High current capability

High surge current capability

High reliability

Low reverse current

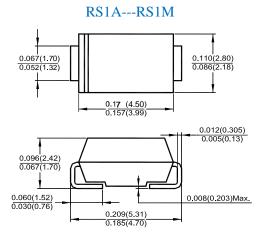
Low forward voltage drop

Fast switching for high efficiency

MECHANICAL DATA

SMA (DO-214AC) molded plastic

Polarity: Color band denotes cathode end



 $\label{eq:Dimensions} \mbox{Dimensions in inches and (millimeters)} \\ \mbox{DO-214AC (SMA)}$

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	IF(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	$v_{\rm F}$	1.3							V
Maximum DC Reverse Current at $T_A = 25$ °C at Rated DC Blocking Voltage at $T_A = 100$ °C	IR	5 50							μА
Maximum Reverse Recovery Time 1)	t _{rr}		1:	50		250	5	00	ns
Typical Junction Capacitance ²⁾	СЈ		50						
Operating and Storage Temperature Range	TJ ,TS		- 65 to + 150						

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.



RS1A---RS1M Typical Characteristics

