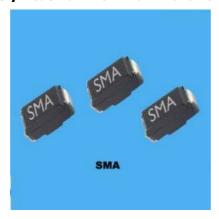


SMD Fast Recovery Diode RS1A RS1B RS1D RS1G RS1J RS1K RS1M



1A SMD Fast Recovery Rectifier Diode RS1A RS1B RS1D RS1G RS1J RS1K RS1M DO-214AC(SMA)

Part Number: RS1A RS1B RS1D RS1G RS1J RS1K RS1M Package: SMA/DO-214AC

Surface Mount Rectifiers

REVERSE VOLTAGE: 50 - 1000 V

CURRENT: 1,0 A

Fast Recovery Rectifier Diode: RS1A-RS1M

Features

- 1. Plastic package has underwriters laborator flammability classification 94V-0
- 2. For surface mounted applications
- 3. Low profile package
- 4. Built-in strain relief,ideal for automated placement
- 5. High temperature soldering: 250 oC/10 seconds at terminals

Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	Symbol	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	Units
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	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _L =90 °C	I _(AV)				1.0				Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							Α
Maximum Instantaneous Forward Voltage @ 1.0A	V _F	1.3							٧
Maximum DC Reverse Current @ T _A =25 °C at Rated DC Blocking Voltage @ T _A =125 °C	I _R	5 50							uA uA
Maximum Reverse Recovery Time (Note 1)	Trr		1:	50		250	50	00	nS
Typical Junction Capacitance (Note 2)	Cj	10							pF
Typical Thermal Resistance (Note 3)	R _{øJA} R _{øJL}	105 32						°C /W	
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Тѕтс	-55 to +150						°C	

Notes:

- Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A
- Measured at 1 MHz and Applied VR=4.0 Volts
 Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.2"x0.2" (5.0 x 5.0 mm) Copper Pad Areas.