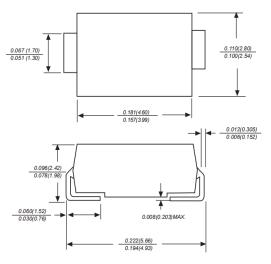


RS1A THRU RS1M

SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0Amperes

DO-214AC/SMA



FEATURES

The plastic package carries Underwriters Laboratory FlammabilityC lassification 94V-0 Forsurfacemountedapplications Fast switching for high efficiency Lowre verse leakage Built - in strain relief, ideal for automated placement High forward surge current capability High temperature soldering guaranteed: 260 C/ 10 seconds at terminals Glass passivated chip junction

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body over passivated chip Term

inals: Solder plated, solderable per MIL-STD -750,

Method 2026

Polarity: Color band deno tes cathode end

Mounting Position: Any

Weigh t:0.003ounce, 0.093grams

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

R atings at 25 *C am b ien t tem pe rature un less othe rw ise spe cified .

S ing le pha se ha If-w ave 60 Hz ,re sistive or indu ctive load ,for capa citive loa d curren t de rate by 20% .

	SYMBOLS	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current		1.0							Amps
at T _L =90 C	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	IFSM 30.0							Amps
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.3							Volts
Maximum DC reverse current T _A =25 C		5.0 50.0							μ _A
at rated DC blocking voltage T _A =100 C	lR								
Maximum reverse recovery time (NOTE 1)	trr		15	50		250	50	00	ns
Typical junction capacitance (NOTE 2)	Cı	15.0						pF	
Typical thermal resistance (NOTE 3)	Reja	20 0						° C/W	
O pe ra ting jun ction and storage tem perature range	ТЈ,Тѕтс	-55 _{to +} 150						°C	

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm)copper pad areas



RATINGS AND CHARACTERISTIC CURVES RS1A THRU RS1M

