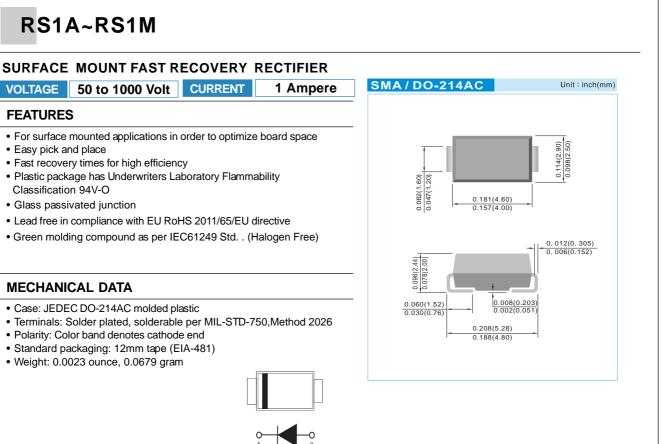


**FEATURES** 

· Easy pick and place

Classification 94V-O

**MECHANICAL DATA** 



#### 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%.

Anode

Cathode

PARAMETER	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Rectified Current	I <sub>F(AV)</sub>	1					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	30					А		
Maximum Forward Voltage at 1A	V <sub>F</sub>	1.3						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_{j}$ =25°C $T_{j}$ =125°C	I <sub>R</sub>	1 150						μA	
Maximum Reverse Recovery Time (Note 1)		150 250 500			00	ns			
Maximum Junction Capacitance (Note 2)		12					рF		
Typical Junction Resistance (Note 3)	R <sub>eja</sub> R <sub>ejl</sub>	100 32					°C / W		
Operating Junction and Storage Temperature Range	T_,T <sub>STG</sub>	-55 to +150						°C	

NOTES:1. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A

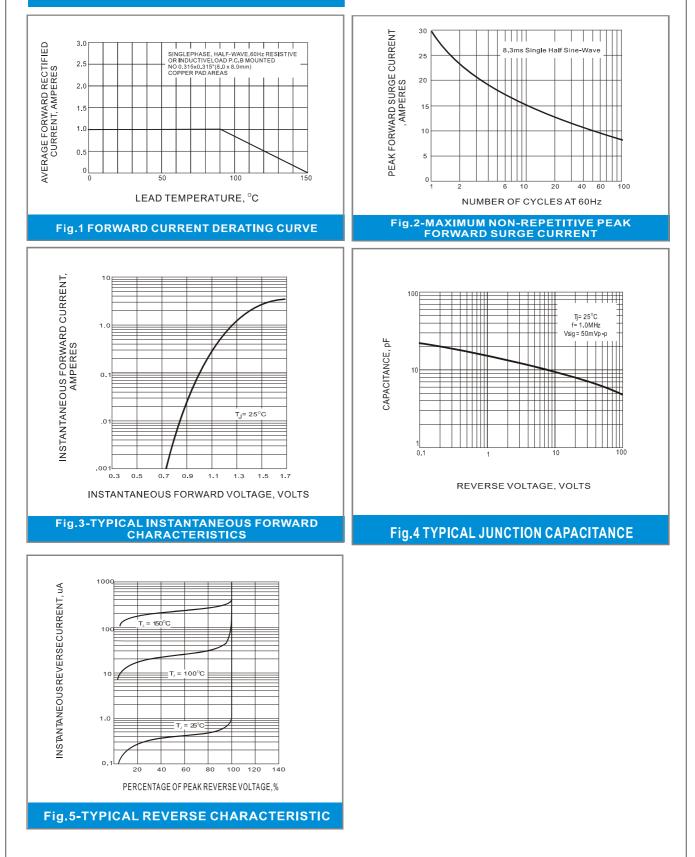
2. Measured at 1 MHz and applied  $V_r = 4$  volts.

3. 8mm<sup>2</sup> (0.013mm thick) land areas.



### RS1A~RS1M

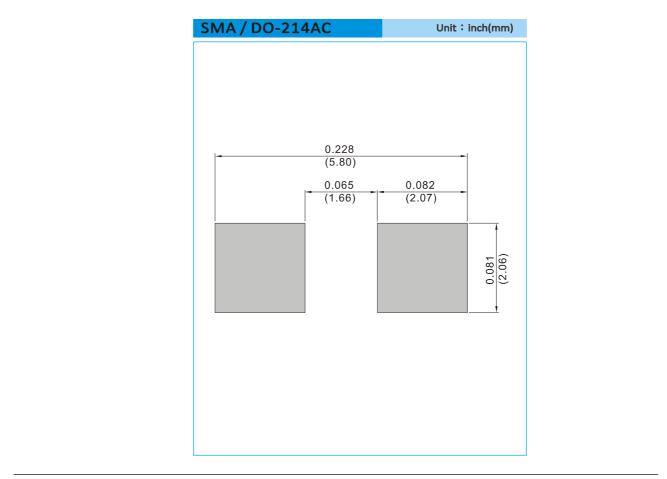
#### RATING AND CHARACTERISTIC CURVES





# RS1A~RS1M

### MOUNTING PAD LAYOUT



#### **ORDER INFORMATION**

Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





## RS1A~RS1M

### Part No\_packing code\_Version

RS1A\_R1\_00001 RS1A\_R2\_00001

### For example :

RB500V-40\_R2\_00001

Part No.

- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX				Version Code XXXXX					
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code			
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	т	26mm	X						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





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