Unit : inch(mm)

0 114(2 90) 0 098(2 50)

0.012(0.305)

RS1A-AU~RS1J-AU

SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE 50 to 600 Volt CURRENT 1 Ampere

FEATURES

- For surface mounted applications in order to optimize board space
- · Easy pick and place
- · Fast Recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated junction
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0023 ounces, 0.0679 grams

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%.

SMA/DO-214AC

0.062(1.60)

0.096(2.44)

0.060(1.52

0.030(0.76

0.181(4.60)

0.157(4.00)

0.008(0.203

0.208(5.28)

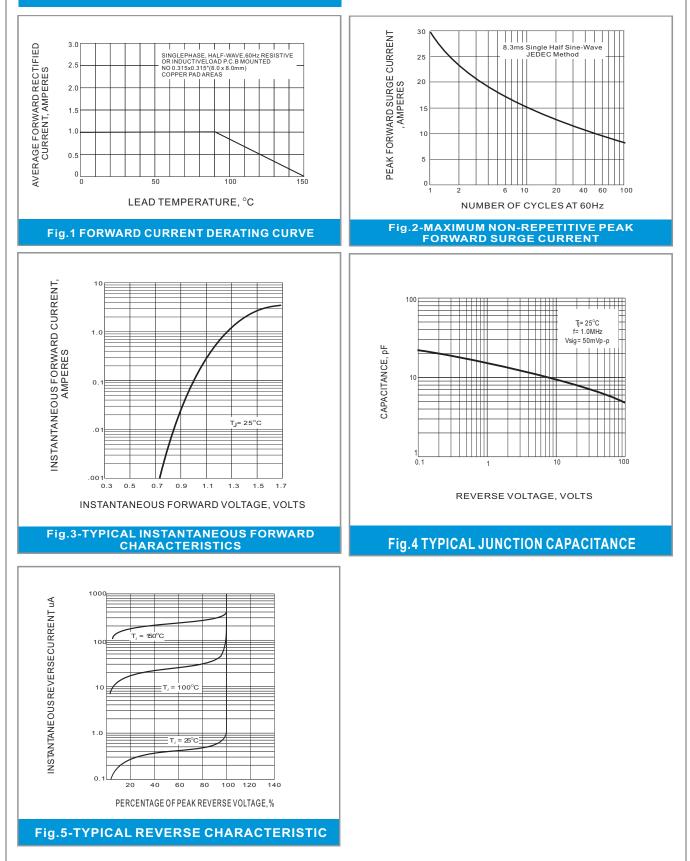
PARAMETER	SYMBOL	RS1A-AU	RS1B-AU	RS1D-AU	RS1G-AU	RS1J-AU	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage		50	100	200	400	600	V
Maximum Average Rectified Current at T _L =90 $^{\mathrm{o}}\mathrm{C}$	I _{F(AV)}	1					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30					А
Maximum Forward Voltage at 1A	V _F	1.3				V	
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =125°C	I _R	1 150				μA	
Maximum Reverse Recovery Time (Note 1)	t _{rr}		150			250	ns
Maximum Junction Capacitance (Note 2)	C	12				pF	
Typical Junction Resistance (Note 3)	$R_{_{ ext{ hetaJA}}}$ $R_{_{ ext{ hetaJL}}}$	100 32				°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{stg}	-55 to +150				٥C	

NOTES:1. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{rr} =0.25A

- 2. Measured at 1 MHz and applied V_r = 4 volts.
- 3.8 mm 2 (0.013mm thick) land areas.

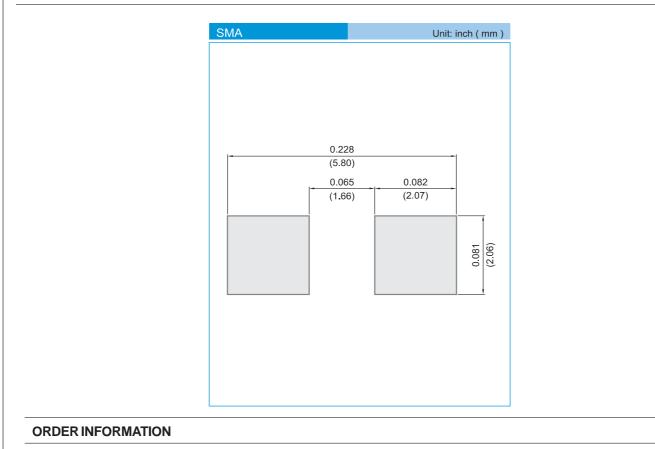


RATING AND CHARACTERISTIC CURVES





MOUNTING PAD LAYOUT



- Packing information
 T/R 7.5K per 13" plastic Reel
 - T/R 1.8Kper 7" plastic Reel





Part No_packing code_Version

RS1A-AU_R1_000A1	
RS1A-AU_R1_100A1	
RS1A-AU_R2_000A1	
RS1A-AU_R2_100A1	

For example :

RB500V-40_R2_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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