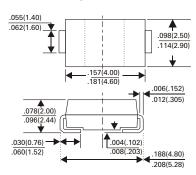
RS2AA thru RS2MA

SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE - 50 TO 1000 VOLTS CURRENT - 2.0 AMPERES

SMA/DO-214AC



Dimensions in inches and (millimeters)

FEATURES

- · For surface mount applications
- · Glass passivated junction chip
- · Buit-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters Laboratory Classification 94V-0
- Fast switching for high efficiency
- · High temperature soldering : 260°C/10seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic Terminals: Pure tin plated, Lead free. Polarity: Indicated by cathode band

Standard packaging: 12mm tape EIA STD RS-481

Weight: 0.064grams

MAXIMUM RATIXGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified Single phase, half wave, 60Hz, resistive or inductive load For capacitive load, derate current by 20%

	SYMBOL	RS2AA	RS2BA	RS2DA	RS2GA	RS2JA	RS2KA	RS2MA	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 @ $T_L = 100^{\circ}C$	I(AV)	2.0							Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	50							Amps
Maximum Instantaneoue Forward Voltage at 2.0A	VF	1.3						Volts	
Maximum DC Reverse Current @T _A =25°C at Rated DC Blocking Voltage @T _A =125°C	IR	5.0 200							μA
Maximum Reverse Recovery Time (NOTE 1) T _J =25°C	Trr	150 250				500		nS	
Typical Junction Capacitance (NOTE 2)	Cı	50						pF	
Maximum Thermal Resistance (NOTE 3)	R θ JA R θ JL	55 18						°C/W	
Operating and Storage Temperature Range	Tı Tstg	-55 to +150							°C

NOTES:

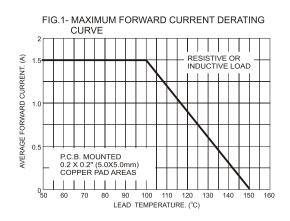
- 1. Rverse Recovery Test Condibons F = 0.5A, F = 1.0A, F = 0.25A
- 2. Measured at 1 MHz and applied reverse Voltag of 4.0VDC
- 3. Thermal Resistance from Junction to Ambient and Junction to Lead Mounted on P.C.B. with 0.2"X0.2" (0.5X0.5mm) copper Pad Areas

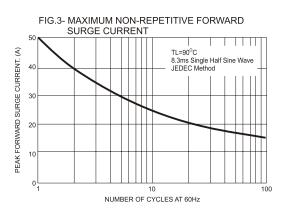


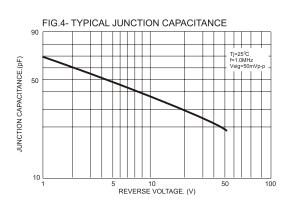
RS2AA thru RS2MA

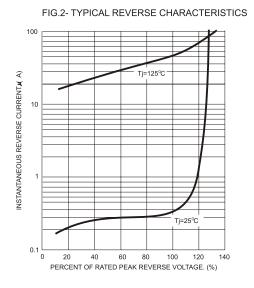
SURFACE MOUNT FAST RECOVERY RECTIFIER

RATING AND CHARACTERISTICS CURVES RS2AA THRURS2MA









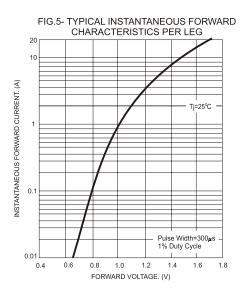


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

