

RS2A THRU RS2M

SURFACE MOUNT FAST SWITCHING RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

FEATURES

◆Plastic package has underwrites laboratory flammability

Classification 94V-0

- ◆Low profile surface mount package
- ◆Built-in strain relief
- ◆Fast switching for high efficiency
- ◆Glass passivated chip junction
- ◆High temperature soldering guaranteed:

250°C/10 seconds at terminals

Mechanical Data

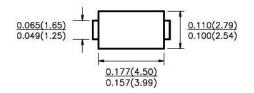
◆Case: JEDED DO-214AC molded plastic over glass passivated chip

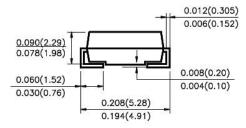
◆Terminals: Solder plated, solderable per MIL-STD-750, method 2026

◆Polarity: Color band denotes cathode end

◆Weight: 0.002ounce, 0.064 gram

DO-214AC (SMA)





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

	SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	V _{RMS}	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 at T_L = 90 $^{\circ}$ C	I _{F(AV)}	2.0						Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) T_L = 90°C	Ігѕм	50						Amps	
Typical Thermal Resistance (Note 1)	RөJA	105							°C/W
	Røjl	32							
Operating junction and Storage Temperature Range	T _J ,Тsтg	-55 to +150						$^{\circ}$	

ELECTRICAL CHARACTERISTICS

		SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Instantaneous Forward Voltage at 1.5A		VF	1.30							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A = 25°C		5.0							uA
	T _A =125℃	I R	50							
Typical Reverse Recovery Time at I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		t _{rr}	150		250	į	500	ns		
Typical junction capacitance at 4.0V, 1MHz		CJ	30 7.0						pF	

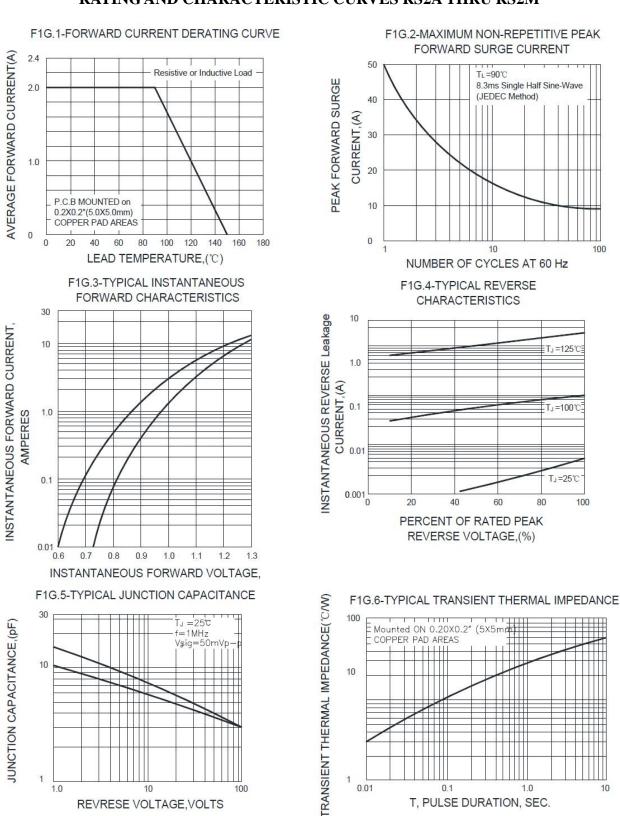
Note: 1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.3 \times 0.3''$ (8.0×8.0 mm) copper pad areas

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RATING AND CHARACTERISTIC CURVES RS2A THRU RS2M



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.

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REVRESE VOLTAGE, VOLTS

1.0

0.01

0.1

T. PULSE DURATION, SEC.

1.0

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