

DATA SHEET

RS2A THRU RS2M

SMA/DO-214AC Unit:inch(mm)

RECTIFIER SPECIALISTS TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 2.0 Ampere



FEATURES

Ideal for surface mounted applications

Low leakage current

Glass passivated junction

High temperature soldering : 260°C /10 seconds at terminals

Pb free product at available: 99% Sn above meet RoHS environment

substance directive request.

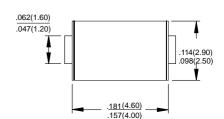
MECHANICAL DATA

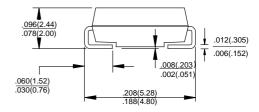
Case: Molded plastic

Epoxy: UL 94V-0 rate flame retardant Terminals: Solder plated, solderable per

MIL-STD-750, Method 2026

Polarity: As marked Mounting position: Any





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%.

		SYMBOL	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNITS
MARKING CODE			RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	
Maximum Recurrent 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		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C		Ю	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30							Amps
Maximum Forward Voltage at 2.0A DC		VF	1.30							Volts
Maximum DC Reverse Current at	@TA = 25℃	In.	5.0							uAmps
Rated DC Blocking Voltage	@TA = 125℃	lR	150							
Maximum Reverse Recovery Time (Note 3)		trr	150			250	500		nSec	
Maximum Thermal Resistance (Note 2)		R JL	30							°C/W
Typical Junction Capacitance (Note 1)		CJ	15							pF
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150							°C

NOTES :1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

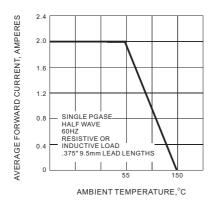
- 2. Thermal Resistance (Junction to Ambient), .24in (6.0mm) 2 copper pads to each terminal.
- 3. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

RATING AND CHARACTERISTIC CURVES **RS2A THRU RS2M**

50

0

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE



FORWARD SURGE CURRENT, (A) 40 30 20 10 8.3ms Single Half

6 8 10

NUMBER OF CYCLES AT 60Hz

20

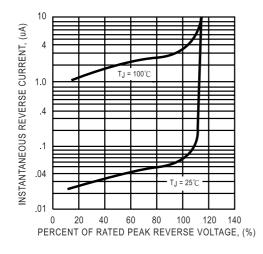
40

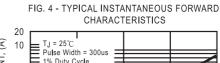
60 80 100

(JEDED Method)

FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

FIG. 3 - TYPICAL REVERSE CHARACTERISTICS





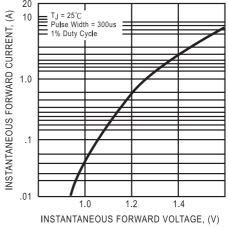


FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

