

RS2A THRU RS2M

SURFACE MOUNTED FAST RECOVERY RECTIFIER
 VOLTAGE: 50 TO 1000V CURRENT: 2.0A



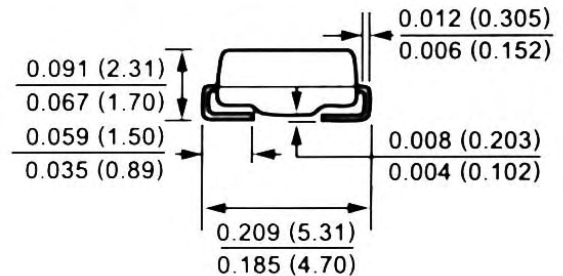
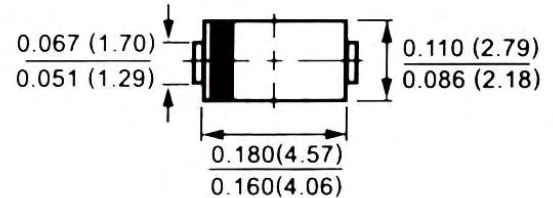
SMA/DO-214AC

Features

- ◆ Glass passivated junction chip
- ◆ For surface mounted application
- ◆ Low profile package
- ◆ Built-in strain relief
- ◆ High surge capability
- ◆ High temperature soldering guaranteed
250°C/10sec/at terminal/complete device
- ◆ Fast recovery time for high efficiency

Mechanical data

- ◆ Cases: Molded with UL-94 class V-0 recognized Flame Retardant Epoxy
- ◆ Terminals: Plated axial leads solderable MIL-STD 202E, method 208C
- ◆ Polarity: Color band denote cathode end
- ◆ Weight: 0.002 ounce, 0.064 gram



Dimensions in inches and (millimeters)

Maximum ratings 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%

Parameter	Symbols	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	Units
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	550	700	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 3/8" lead length at $T_L=100^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50.0							A
Maximum instantaneous forward voltage at rated forward current	V_F	1.3							V
Maximum DC reverse current $T_a=25^\circ\text{C}$ At rated DC blocking voltage $T_a=125^\circ\text{C}$	I_R	5.0 2000.00							μA μA
Maximum Reverse Recovery Time	T_{rr}	150				250	500		nS
Typical junction capacitance	C_J	50.0							pF
Typical thermal resistance	R_{JA}	50.0							$^\circ\text{C}/\text{W}$
Storage and operating junction temperature	T_{STG}	-50 to +150							$^\circ\text{C}$

Notes: 1. Measured at 1.0MHz and applied voltage of 4.0Vdc

2. Thermal resistance from junction to terminal mounted on 5×5mm copper pad area

3. Reverse recovery condition $I_f=1.0\text{A}$, $I_{rr}=0.25\text{A}$