

RoHS RS2A THRU RS2M

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SURFACE MOUNTED FAST RECOVERY RECTIFIER

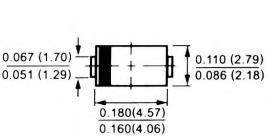
VOLTAGE: 50 TO 1000V CURRENT: 2.0A

Features

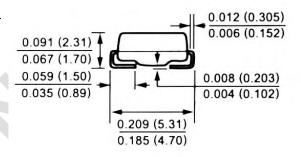
- Glass passivated junction chip
- For surface mounted application
- Low profile package
- Built-in strain relief
- High surge capability
- High temperature soldering guaranteed 250°C/10sec/at terminal/complete device
- Fast recovery time for high efficiency

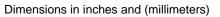
Mechanical data

- 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



SMA/DO-214AC





Maximum ratings and electrical characteristics

Ratings at 25 $^\circ\!\!\!{\rm C}$ $\,$ 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 $T_L{=}100^\circ\!\mathrm{C}$	I _{F(AV)}	2.0							А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50.0							А
Maximum instantaneous forward voltage at rated forward current	VF	1.3							V
Maximum DC reverse current Ta=25°C		5.0							μA
At rated DC blocking voltage Ta=125 $^\circ\!\!\!\!^\circ\!\!\!^\circ$	I _R 2000.00							μA	
Maximum Reverse Recovery Time	Trr	150 250 500					00	nS	
Typical junction capacitance	CJ	50.0							pF
Typical thermal resistance	R _{JA}	50.0							°C/W
Storage and operating junction temperature	T _{STG}	-50 to +150							°C

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

2. Thermal resistance from junction to terminal mounted on $5\times5\text{mm}$ copper pad area

3. Reverse recovery condition If=1.0A,Irr=0.25A