



RS2A THRU RS2M SURFACE MOUNT FAST SWITCHING RECTIFIER

TECHNICAL
SPECIFICATION

VOLTAGE: 50 TO 1000V CURRENT: 2.0A

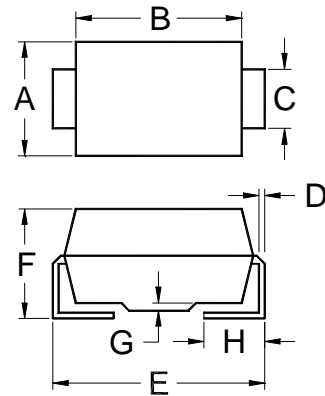
FEATURES

- Ideal for surface mount pick and place application
- Low profile package
- Built-in strain relief
- High surge capability
- Glass passivated chip
- Fast recovery for high efficiency
- High temperature soldering guaranteed: 260°C/10sec/at terminal

MECHANICAL DATA

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Color band denotes cathode

SMB/DO-214AA



	A	B	C	D
MAX.	.155(3.94)	.180(4.57)	.083(2.11)	.012(0.30)
MIN.	.130(3.30)	.160(4.06)	.077(1.96)	.006(0.15)
	E	F	G	H
MAX.	.220(5.59)	.096(2.44)	.008(0.203)	.060(1.52)
MIN.	.205(5.21)	.084(2.13)	.004(0.102)	.030(0.76)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	RS 2A	RS 2B	RS 2D	RS 2G	RS 2J	RS 2K	RS 2M
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000
Maximum Average Forward Rectified Current ($T_L=110^\circ\text{C}$)	$I_{F(AV)}$	2.0						
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I_{FSM}	50						
Maximum Instantaneous Forward Voltage (at rated forward current)	V_F	1.3						
Maximum DC Reverse Current (at rated DC blocking voltage)	I_R	5.0 200						
Maximum Reverse Recovery Time (Note 1)	t_{rr}	150			250		500	
Typical Junction Capacitance (Note 2)	C_J	30						
Typical Thermal Resistance (Note 3)	$R_{\theta(ja)}$	16						
Storage and Operation Junction Temperature	T_{STG}, T_J	-50 to +150						

Note:

1. Reverse recovery condition $I_F=0.5A$, $I_R=1.0A$, $I_{rr}=0.25A$.
2. Measured at 1.0 MHz and applied voltage of 4.0V_{dc}
3. Thermal resistance from junction to terminal mounted on 5x5mm copper pad area

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r

UNITS

V

V

V

A

A

V

μA

μA

nS

pF

°C/W

°C