

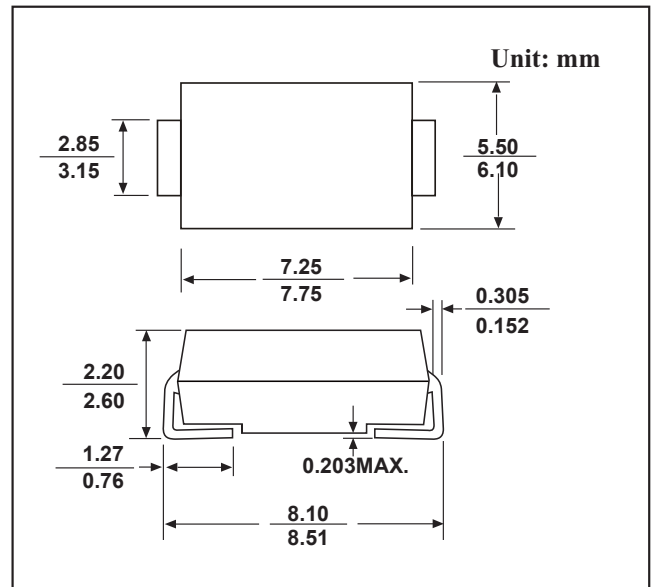
## SMC PLASTIC SILICON RECTIFIERS

### FEATURES

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Fast switching for high efficiency
- Low reverse leakage
- Built-in strain relief,ideal for automated placement High forward surge current capability
- High temperature soldering guaranteed: 250 °C / 10 seconds at terminals

### MECHANICAL DATA

- Case: JEDEC SMA molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any



## MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbols	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	VOLT
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	VOLT
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	VOLT
Maximum average forward rectified current at $T_L=65^{\circ}C$	$I_{(AV)}$	3.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	100.0							Amps
Maximum instantaneous forward voltage at 3.0A	$V_F$	1.3							Volt
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25^{\circ}C$ $T_a = 125^{\circ}C$	$I_R$	5.0 50.0							$\mu A$
Maximum reverse recovery time (NOTE 1)	$t_{rr}$	150			250		500		ns
Typical junction capacitance (NOTE 2)	$C_j$	150.0							pF
Typical thermal resistance (NOTE 3)	$R_{\theta JA}$	20.0							$^{\circ}C/W$
Operating junction and storage temperature range	$T_j, T_{stg}$	-55 to +150							$^{\circ}C$

**Note:** 1.Measured with  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$ .

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.Thermal resistance junction to ambient, 6.0 mm<sup>2</sup> copper pads to each terminal.

## RATINGS AND CHARACTERISTIC CURVES

