

SUPER FAST RECTIFIERS

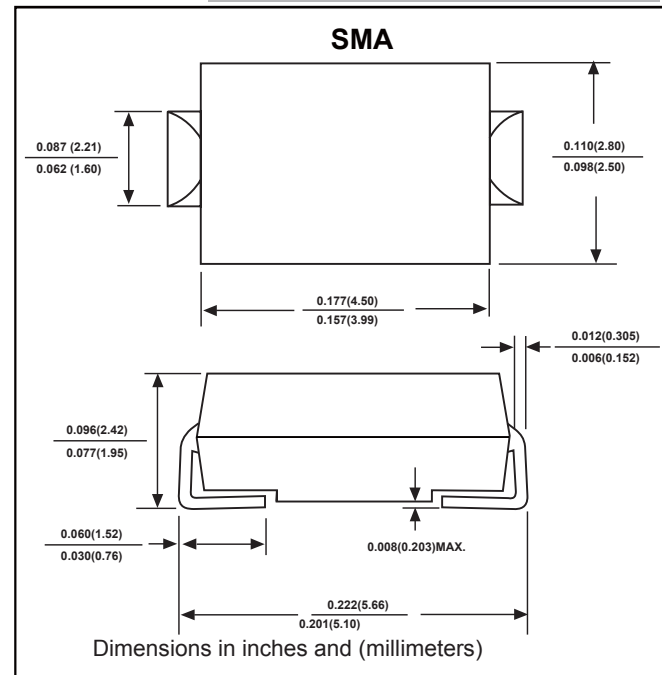
VOLTAGE RANGE: 50--- 1000 V
CURRENT: 3.0 A

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)Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

	SYMBOLS	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at $T_L=90\text{ }^\circ\text{C}$	$I_{(AV)}$	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 $T_A=25\text{ }^\circ\text{C}$ at rated DC blocking voltage	I_R	5.0 50.0							μA
Maximum reverse recovery time $T_A=100\text{ }^\circ\text{C}$ (NOTE 1)	t_r	150				250	500		ns
Typical junction capacitance (NOTE 2)	C_j	150.0							pF
Typical thermal resistance (NOTE 3)	$R_{\theta JA}$	20.0							$^\circ\text{C}/\text{W}$
Operating junction and storage temperature range	T_J, T_{STG}	-65 to +150							$^\circ\text{C}$

Note: 1. Reverse recovery condition

$I_F=0.25\text{ A}$ measured, $f_r=1\text{ kHz}$ and applied reverse voltage of 4.0V D.C.

3. P.C.B. mounted with 0.6x0.6" (16x16mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES

