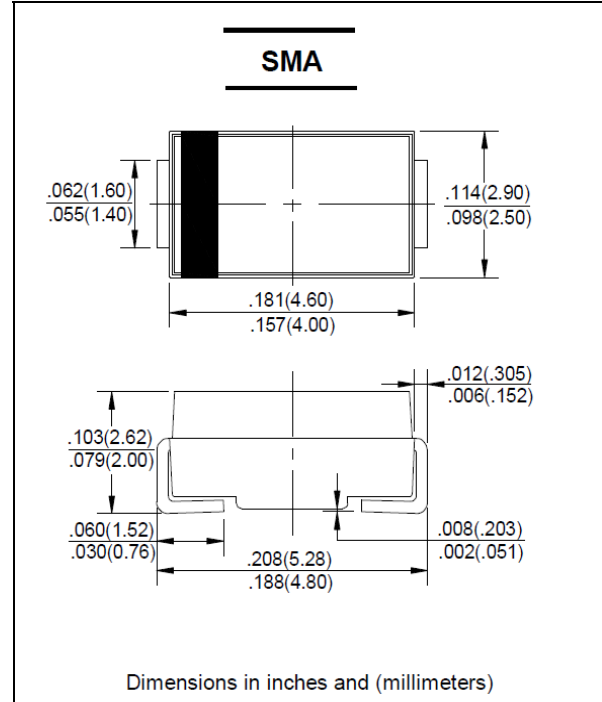


FEATURES

- Low cost
- Diffused junction
- Low Leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon. Alcohol. Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals: Axial leads. Solderable per MIL - STD - 750. Method 2026
- Polarity: Color band denotes cathode
- Weight: 0.041 ounce. 1.15 grams
- Mounting position: Any


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

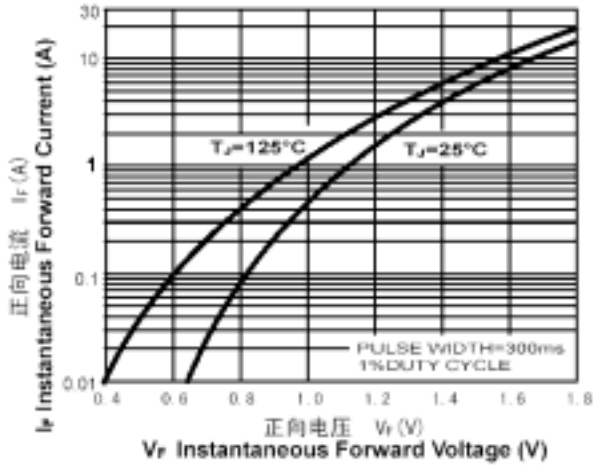
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase. half wave. 60HZ. resistive or inductive load. For capacitive load. derate current by 20 %

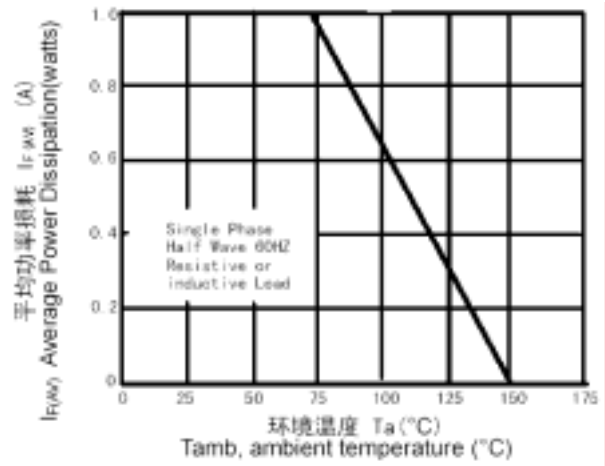
	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_L = 110^\circ\text{C}$	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated $T_j = 125^\circ\text{C}$	I_{FSM}	30							A
Maximum Forward Voltage at 1.0A DC	V_F	1.3							V
Maximum Reverse Current $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A = 100^\circ\text{C}$	I_R	10 50							μA
Maximum reverse recovery time (Note 1)	t_{rr}	150				250	500	ns	
Typical Junction Capacitance (Note 2)	C_j	15							pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	55							$^\circ\text{C/W}$
Operating Junction Temperature Range	T_j	- 55 to 150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 55 to 150							$^\circ\text{C}$

- NOTE: 1. Reverse recovery condition $I_F=0.5A$ $I_R=1.0A$ $t_{rr}=0.25A$.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Thermal Resistance Junction to Ambient.

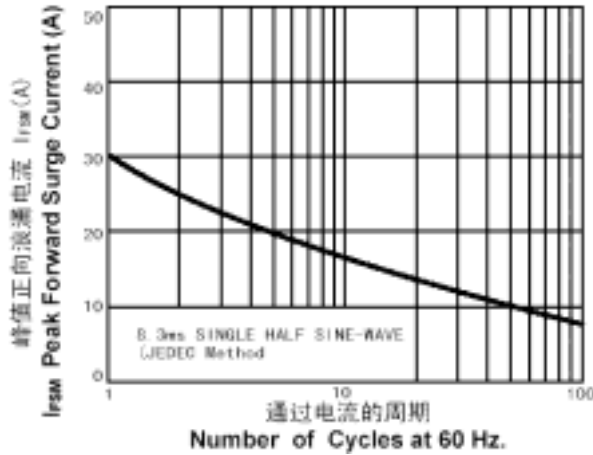
TYPICAL FORWARD CHARACTERISTIC



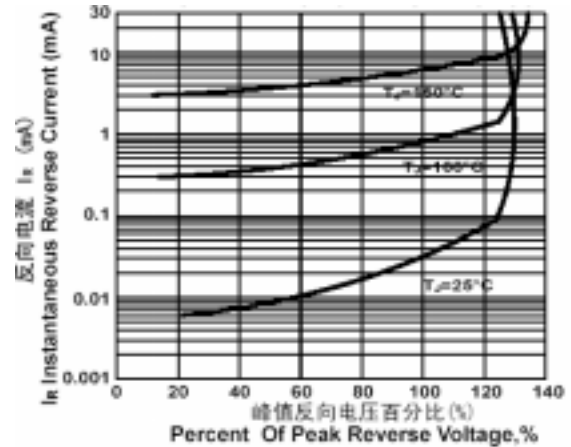
FORWARD CURRENT DERATING CURVE



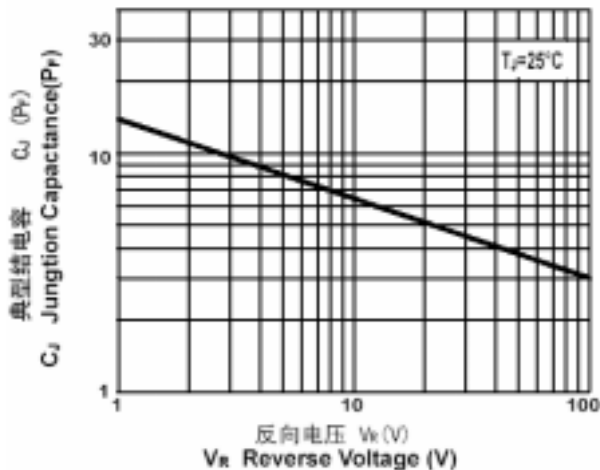
MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE



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