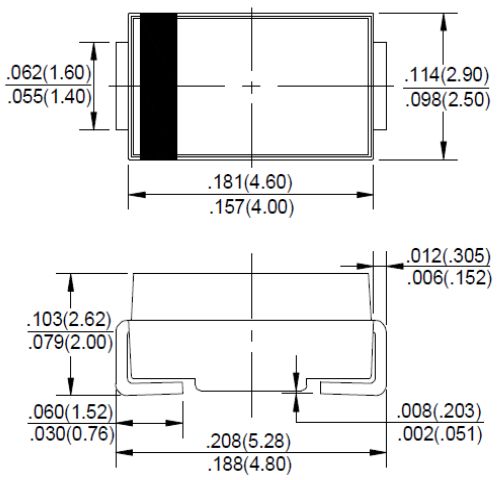
FEATURES

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

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

SMA



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ℃ ambient temperature unless otherwise specified.

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

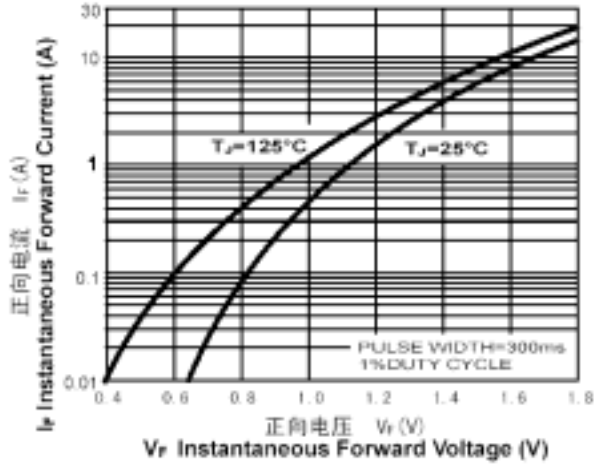
	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T_L = 110℃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

NOTE: 1. Reverse revovery condition I_F=0.5A I_R=1.0A Irr=0.25A.

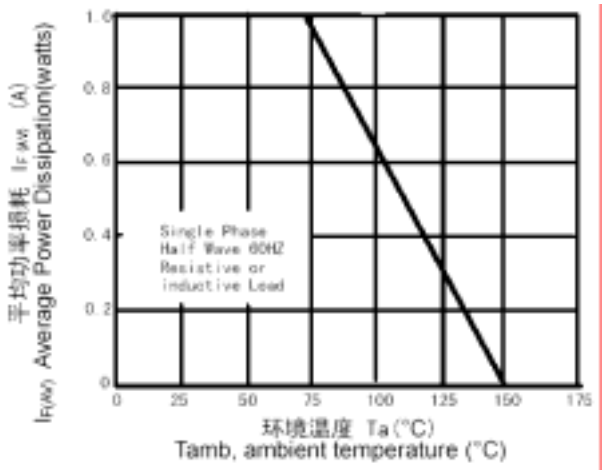
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance Junction to Ambient.

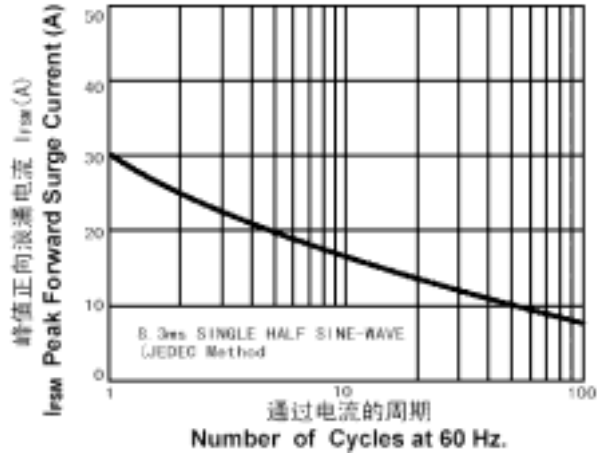
TYPICAL FORWARD CHARACTERISTIC



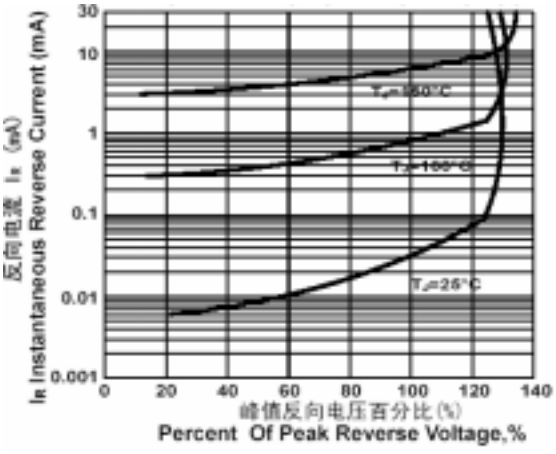
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTICS



TYPICAL JUNCTION CAPACITANCE