



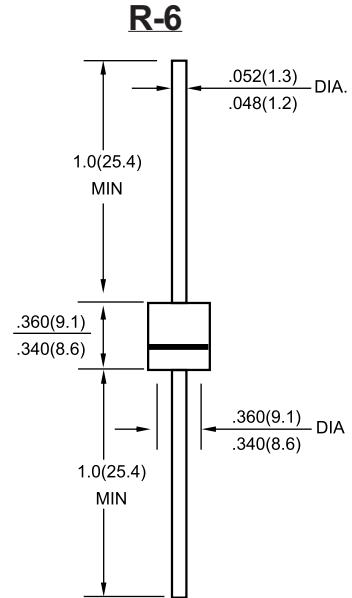
**REVERSE VOLTAGE - 30 to 100Volts**  
**FORWARD CURRENT - 10.0 Amperes**

### Features

- Metal of silicon rectifier , majority carrier conduction
- Guard ring for transient protection
- Low power loss,high efficiency
- High current capability,low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications

### Mechanical Data

- Case: JEDEC R-6 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.07ounces , 2.1grams
- Mounting position: Any



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	10SQ 030	10SQ 035	10SQ 040	10SQ 045	10SQ 050	10SQ 060	10SQ 080	10SQ 100	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	30	35	40	45	50	60	80	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	21	24.5	28	31.5	35	42	56	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	30	35	40	45	50	60	80	100	V
Maximum Average Forward Rectified Current@T <sub>c</sub> =95 °C	I <sub>(AV)</sub>	10								A
Peak Forward Surage Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	I <sub>FSM</sub>	250								A
Peak Forward Voltage at 10A DC(Note1)	V <sub>F</sub>	0.55			0.7		0.8			V
Maximum DC Reverse Current @T <sub>j</sub> =25°C	I <sub>R</sub>	0.5						0.1		mA
at Rated DC Bolcking Voltage @T <sub>j</sub> =100°C		50						10		
Operating Temperature Range	T <sub>J</sub>	-55 to+200								°C
Storage Temperature Range	T <sub>STG</sub>	-55 to+150								°C

NOTES:1.300us Pulse Width, 2%Dudy Cycle.



### RATING AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

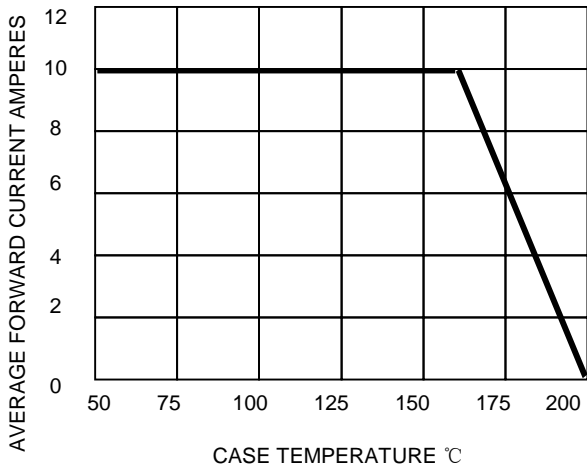


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

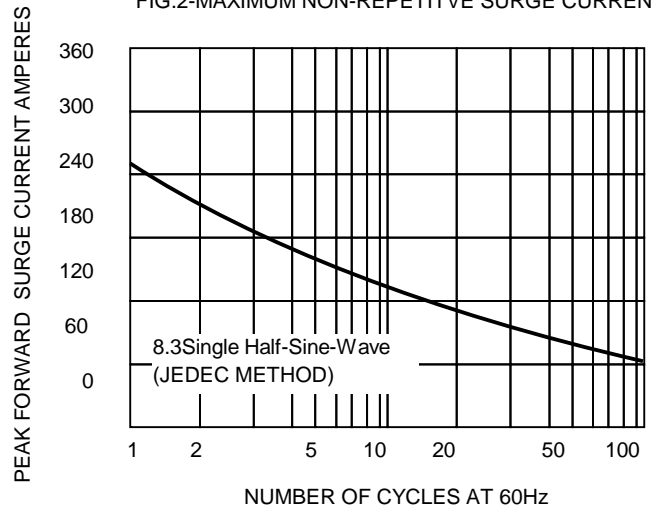


FIG.3-TYPICAL REVER CHARACTERISTICS

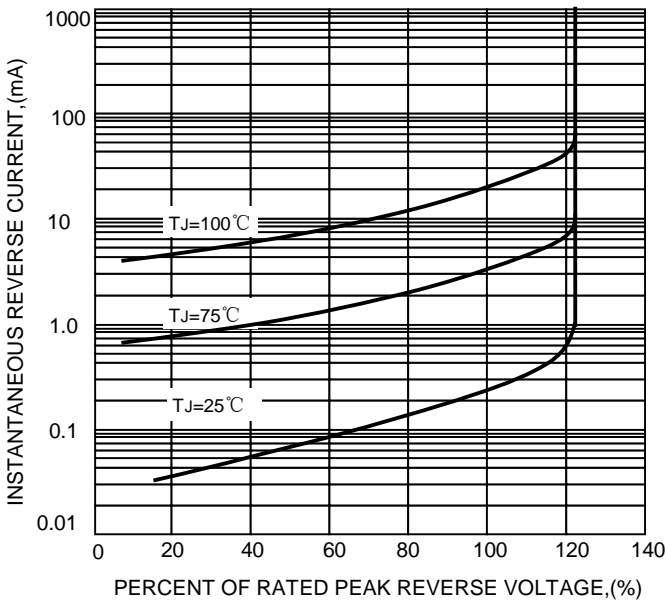
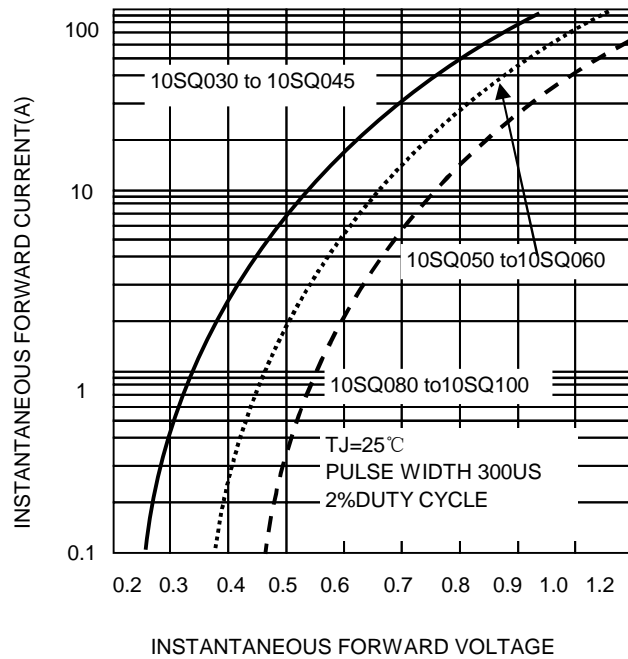


FIG.4-TYPICAL FORWARD CHARACTERISTICS



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
R-6	500/AMMO	5000	44X28X31	12.00	10.00