



10SQ030S thru 10SQ100S

SCHOTTKY BARRIER RECTIFIERS

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

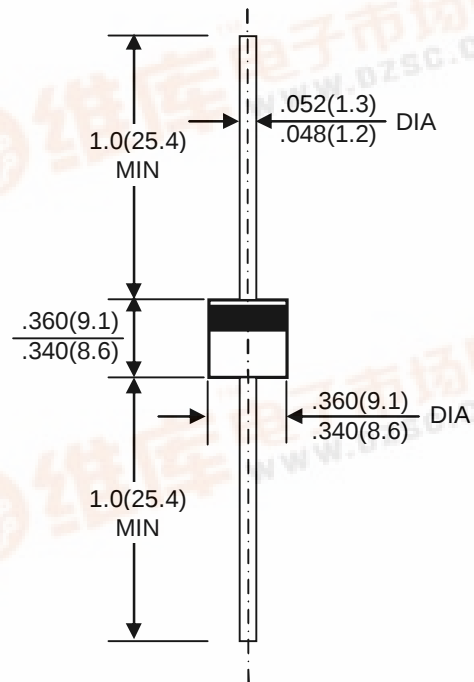
FEATURES

- 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: 0.07 ounces , 2.1 grams
- Mounting position: Any

R - 6



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 030S	10SQ 035S	10SQ 040S	10SQ 045S	10SQ 050S	10SQ 060S	10SQ 080S	10SQ 100S	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	30	35	40	45	50	60	80	100	V
Maximum RMS Voltage	VRMS	21	24.5	28	31.5	35	42	56	70	V
Maximum DC Blocking Voltage	VDC	30	35	40	45	50	60	80	100	V
Maximum Average Forward Rectified Current@Tc=95 °C	I(AV)	10								A
Peak Forward Surance Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	IFSM	250								A
Peak Forward Voltage at 10A DC(Note1)	VF	0.55				0.7		0.8		V
Maximum DC Reverse Current @Tj=25°C at Rated DC Blocking Voltage @Tj=100°C	IR	0.5 50								mA
Operating Temperature Range	TJ	-55 to+150								°C
Storage Temperature Range	TSTG	-55 to+150								°C

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



RATING AND CHARACTERISTIC CURVES
10SQ030S thru 10SQ100S



FIG.1-FORWARD CURRENT DERATING CURVE

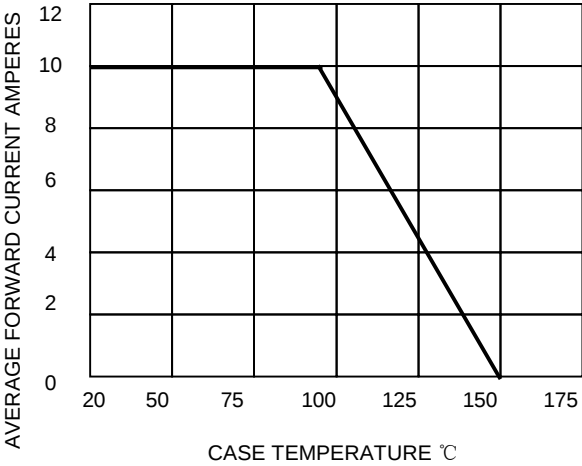


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

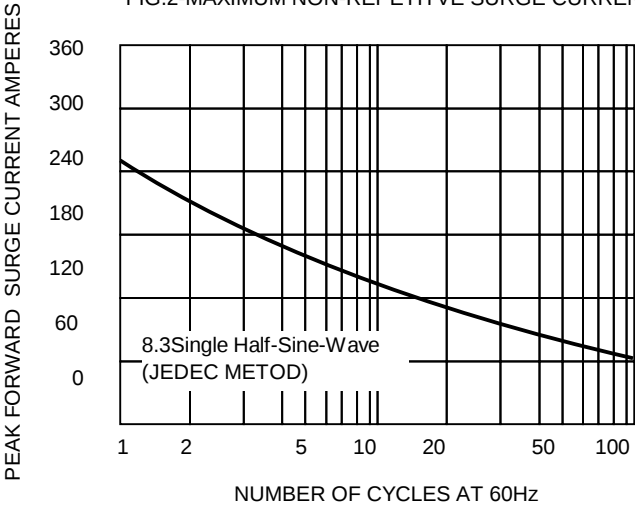


FIG.3-TYPICAL REVER CHARACTERISTICS

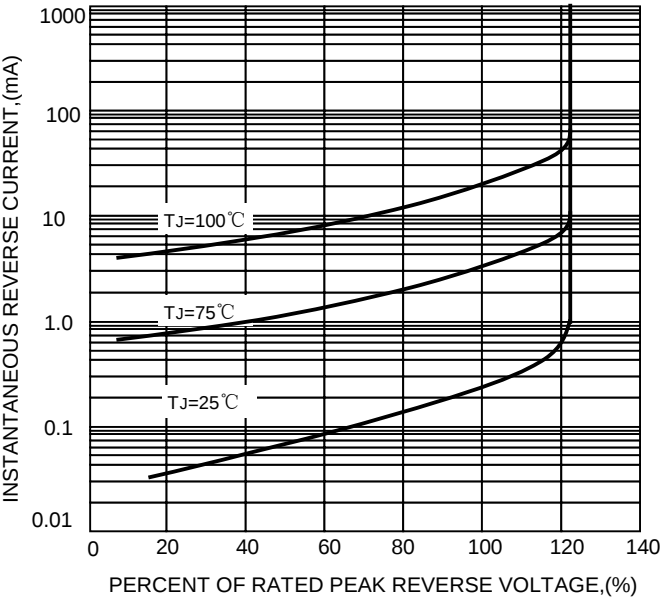


FIG.4-TYPICAL FORWARD CHARACTERISTICS

