

10SQ030 thru 10SQ100

SCHOTTKY BARRIER RECTIFIERS

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

FEATURES

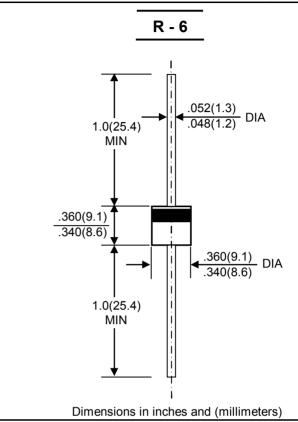
- ●Metal of silicon rectifier , majority carrier conduction
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free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

MECHANICAL DATA

Case: JEDEC R-6 molded plastic

Polarity: Color band denotes cathodeWeight: 0.07 ounces, 2.1 grams

• Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	10SQ030	10SQ035	10SQ040	10SQ045	10SQ050	10SQ060	10SQ080	10SQ100	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								Α
Peak Forward Surage Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	IFSM	275								Α
Peak Forward Voltage at 10A DC(Note1)	VF	0.55 0.7 0				.8	V			
Maximum DC Reverse Current @Tj=25℃	0.5								mA	
at Rated DC Bolcking Voltage @Tj=100℃	IR	50								
Tyical Junction Capacitance (Note2)	CJ	450								PF
Tyical Thermal Resistance (Note3)	Rejc	3.0								°C/w
Operating Temperature Range	TJ	-55 to+150								$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Tstg	-55 to+150								$^{\circ}\!\mathbb{C}$

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

- 2.Measured at 1.0 MHZ and applied reverse voltage of 4.0VDC.
- 3. Thermal Resistance Junction to Case.



