



10SQ030 thru 10SQ100

SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE -30 to 100Volts FORWARD CURRENT -10.0 Amperes
<p>FEATURES</p> <ul style="list-style-type: none"> ●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 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> ●Case: JEDEC R-6 molded plastic ●Polarity: Color band denotes cathode ●Weight: 0.07 ounces , 2.1 grams ●Mounting position: Any 	<p>R - 6</p> <p>Dimensions in inches and (millimeters)</p>

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	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								A
Peak Forward Surage Current 8.3ms single half sine-wave super imposed on rated load(JEDEC Method)	IFSM	275								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 Bolcking Voltage @Tj=100°C	IR					0.5			50	mA
Typical Junction Capacitance (Note2)	CJ					450				PF
Typical Thermal Resistance (Note3)	RθJC					3.0				°C/w
Operating Temperature Range	TJ					-55 to+150				°C
Storage Temperature Range	TSTG					-55 to+150				°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.



RATING AND CHARACTERISTIC CURVES

10SQ030 thru 10SQ100



FIG.1-FORWARD CURRENT DERATING CURVE

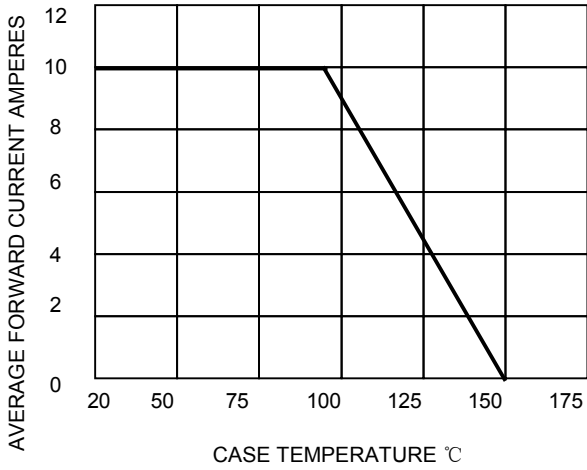


FIG.2-MAXIMUM NON-REPETITIVE SURGE

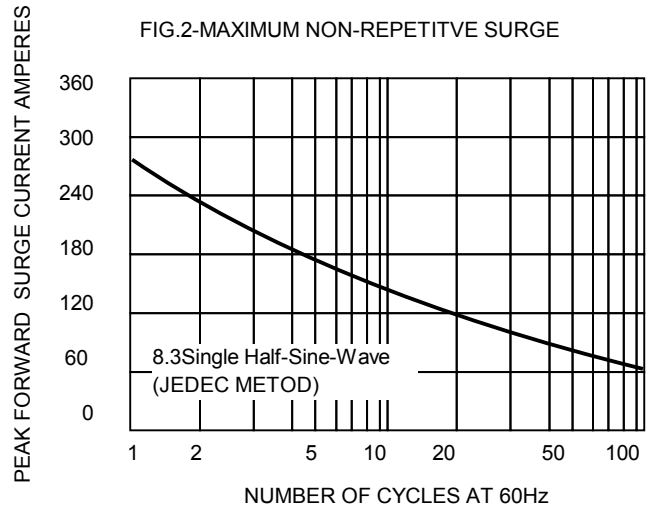


FIG.3-TYPICAL REVERSE CHARACTERISTICS

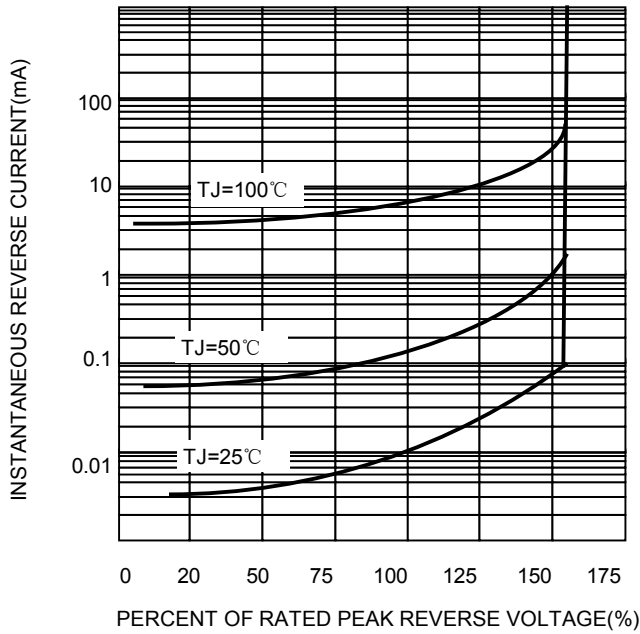


FIG.4-TYPICAL FORWARD CHARACTERISTICS

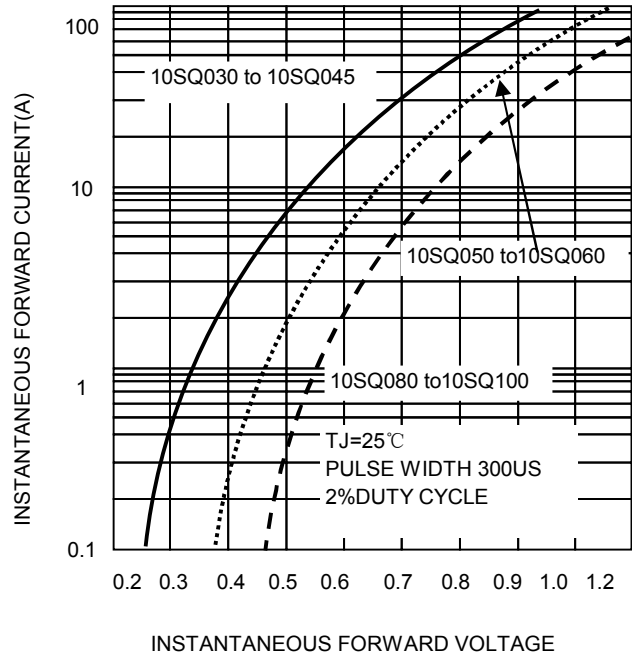


FIG.5-TYPICAL JUNCTION CAPACITANCE

