

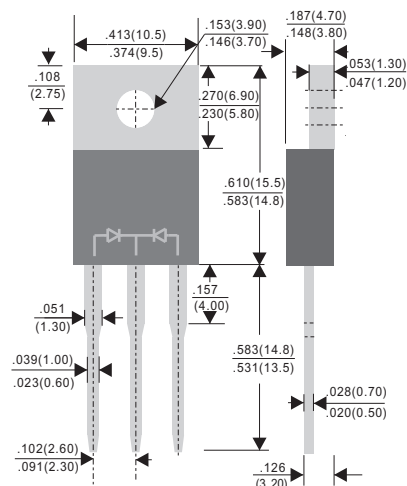
FEATURES

- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge capability
- * Pb free plating 99% Sn above



MECHANICAL DATA

- * Case: TO-220 Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.0 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

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

For capacitive load, derate current by 20%

RATINGS		SYMBOL	SR2020C	SR2030C	SR2040C	SR2060C	SR2080C	SR20100C	SR20150C	SR20200C	UNIT	
Marking Code			SR2020C	SR2030C	SR2040C	SR2060C	SR2080C	SR20100C	SR20150C	SR20200C		
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	60	80	100	150	200	Volts	
Maximum RMS Voltage		VRMS	14	21	28	42	56	70	105	140	Volts	
Maximum DC Blocking Voltage		VDC	20	30	40	60	80	100	150	200	Volts	
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length at TL = 90°C		IO	20.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	200									Amps
Typical Thermal Resistance (Note 1)		ROJA	3.0									°C/W
Typical Junction Capacitance (Note 2)		CJ	700		500		280				PF	
Operating Temperature Range		TJ	-65 to +125									°C
Storage Temperature Range		TSTG	-65 to +150				-65 to +175					°C
CHARACTERISTICS		SYMBOL	SR2020C	SR2030C	SR2040C	SR2060C	SR2080C	SR20100C	SR20150C	SR20200C	UNIT	
Maximum Forward Voltage at 10.0A DC, pre leg(Note 3)		VF	0.55			0.75	0.85		0.92		Volts	
Maximum Average Reverse Current at		IR								0.5		mAmps
Rated DC Blocking Voltage										10		

NOTES :1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3. Measured at Pulse Width 300µs, Duty Cycle 2%.



**CHENG-YI
ELECTRONIC**

SR2020C thru SR20200

PB FREE PRODUCT

SCHOTTKY BARRIER RECTIFIER

TO-220 PACKAGE

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

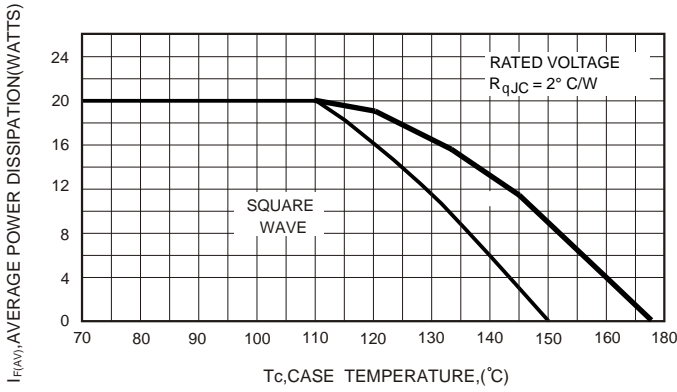


FIG.2- TYPICAL FORWARD VOLTAGE (PER LEG)

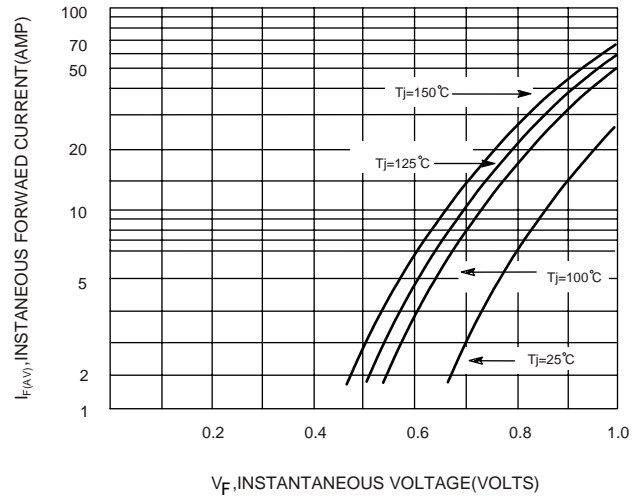


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

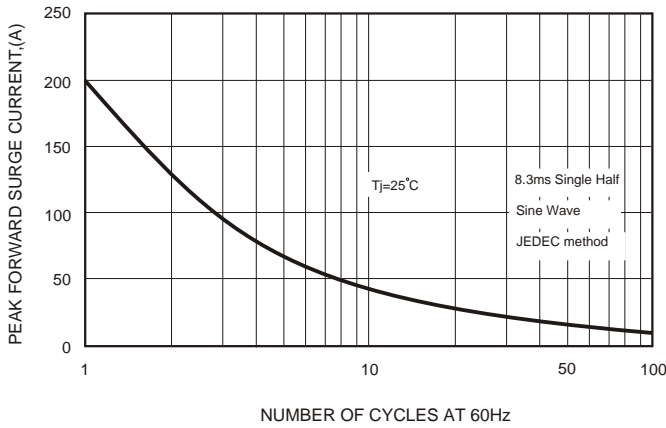


FIG.5-TYPICAL REVERSE CURRENT (PER LEG)

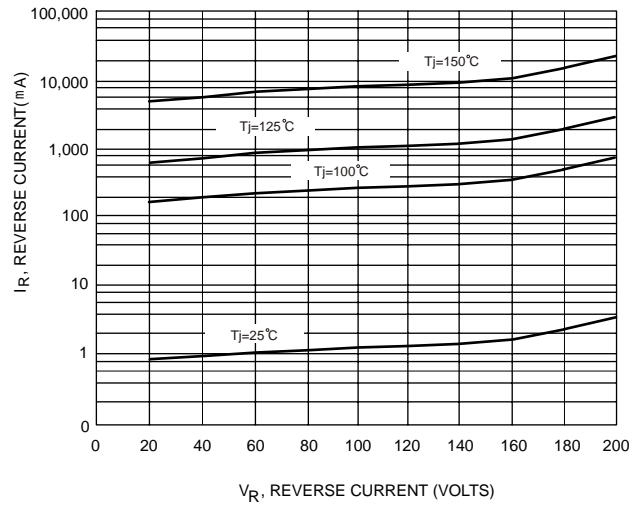


FIG.4-TYPICAL JUNCTION CAPACITANCE

