

CE

CHENYI ELECTRONICS

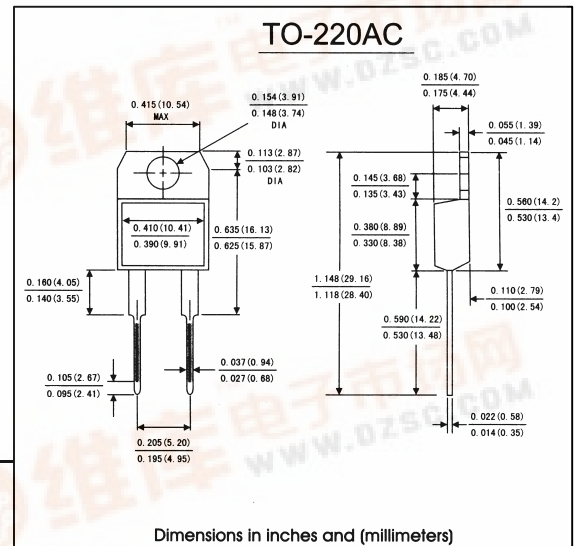
SR1020 THRU SR1620(SINGLE CHIP)**SCHOTTKY BARRIER RECTIFIER****Reverse Voltage - 20 to 60 Volts****Forward Current - 10.0Amperes****FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss,high efficiency
- High current capability ,Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling , and polarity protection applications
- High temperature soldering guaranteed: 250°C/10 seconds

0.25"(6.35mm)from case

MECHANICAL DATA

- Case:** JEDEC DO-220AC molded plastic body
- Terminals:** lead solderable per MIL-STD-750,method 2026
- Polarity:** As marked
- Mounting Position:** Any
- Weight:** 0.08 ounce, 1.81 grams

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Ratings at 25°C ambient temperature unless otherwise specified,Single phase,half wave,resistive or inductive)

load. For capacitive load,derate by 20%)

	Symbols	SR1020	SR1030	SR1040	SR1050	SR1060	Units
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	Volts
Maximum RMS voltage	VRMS	14	21	28	35	42	Volts
Maximum DC blocking voltage	VDC	20	30	40	50	60	Volts
Macimum average forward rectified current(see Fig.1)	I(AV)	10.0					Amps
Repetitive peak forward current(square wavr, 20KHz) at Tc=105℃	IFRM	20.0					Amps
Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method)	IFSM	150.0					Amps
Maximum instantaneous forward voltage at 10 A(Note 1)	VF	0.70			0.8		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	IR	1.0					mA
		30					
Typeical thermal resistance(Note 2)	R θ JC	2.5					℃/W
Operating junction temperature range	TJ	-65 to +150					℃
storage temperature range	TSTG	-65 to +150					℃

Notes: 1. Pulse test: 300 μs pulse width,1% duty cycle

2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SR1020 THRU SR1620

FIG.1-FORWARD CURRENT DERATING CURVE

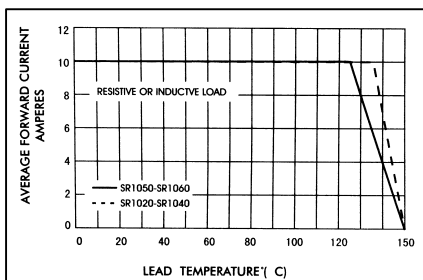


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

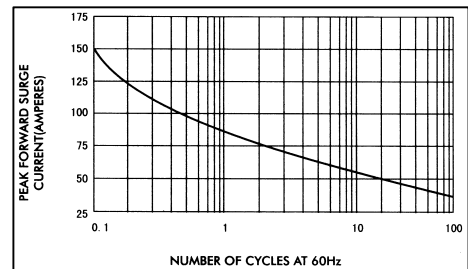


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

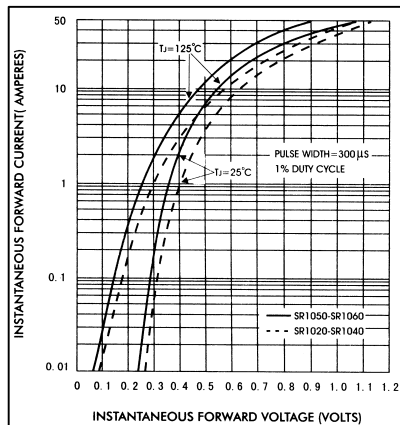


FIG.4-TYPICAL REVERSE CHARACTERISTICS

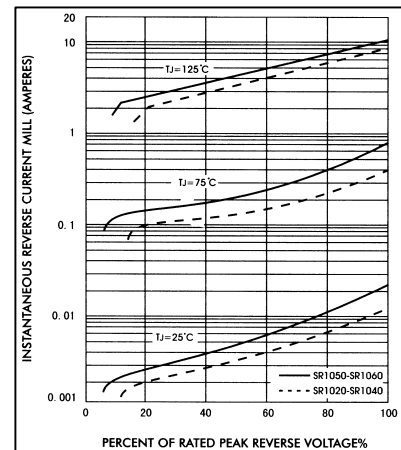


FIG.5-TYPICAL JUNCTION CAPACITANCE

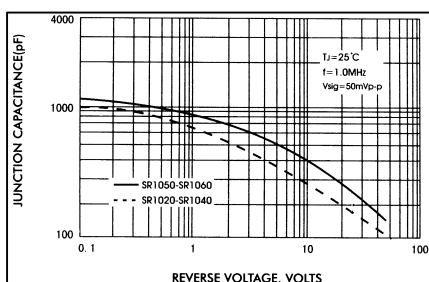


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

