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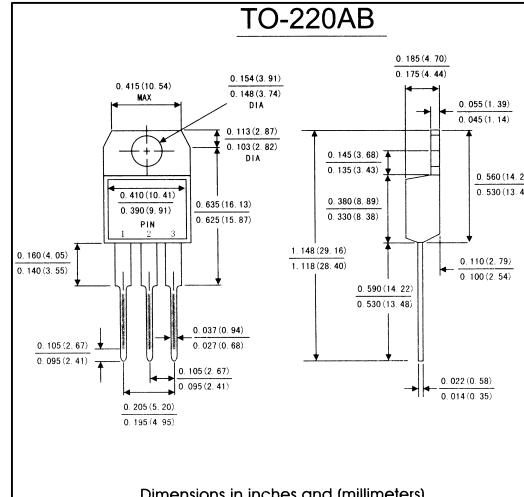
CHENYI ELECTRONICS

SR1020 THRU SR10A0**SCHOTTKY BARRIER RECTIFIER****Reverse Voltage - 20 to 100 Volts****Forward Current - 10.0 Amperes****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
 - . High surge capability
 - . For use in low voltage ,high frequency inverters, free wheeling , and polarity protection applications
 - . Dual rectifier construction
 - . High temperature soldering guaranteed: 250°C/10 seconds
- 0.25"(6.35mm)from case

MECHANICAL DATA

- . **Case:** JEDEC DO-220AB molded plastic body
- . **Terminals:** lead solderable per MIL-STD-750,method 2026
- . **Polarity:** As marked. No suffix indicates Common Cathode, suffix "A" indicates Common Anode
- . **Mounting Position:** Any
- . **Weight:** 0.08 ounce, 2.24 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	SR1080	SR10A0	Units
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	57	71	Volts
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	Volts
Maximum average forward rectified current (see Fig.1)	I _(AV)						10.0		Amps
Repetitive peak forward current (square wav, 20KHz) at T _c =105°C	I _{FRM}						20.0		Amps
Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}						150.0		Amps
Maximum instantaneous forward voltage at 10 A (Note 1)	V _F		0.70		0.8		0.80	0.85	Volts
Maximum instantaneous reverse current at rated DC blocking voltage (Note 1)	TA=25°C	IR			1.0				mA
				30			25		
Typeical thermal resistance (Note 2)	R _θ _{JC}				2.5				°C/W
Operating junction temperature range	T _J		-65 to +125			-65 to +150			°C
Storage temperature range	T _{STG}				-65 to +150				°C

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

2. Thermal resistance from juntion to case

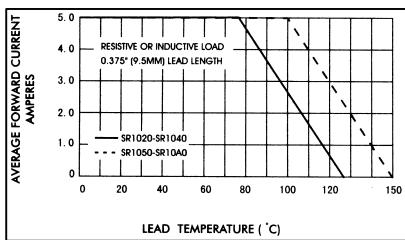
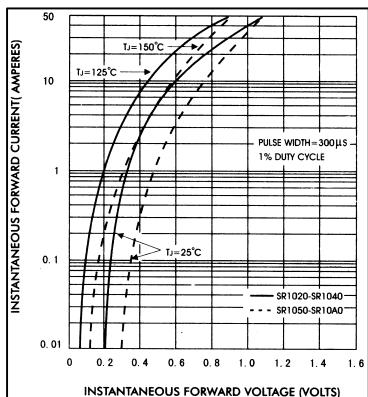
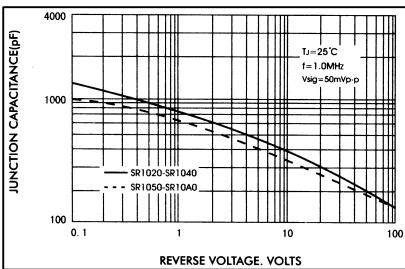
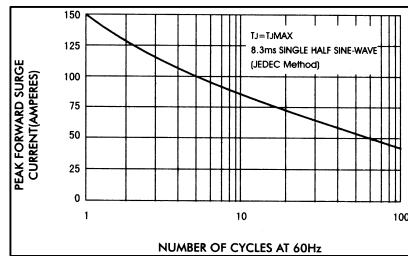
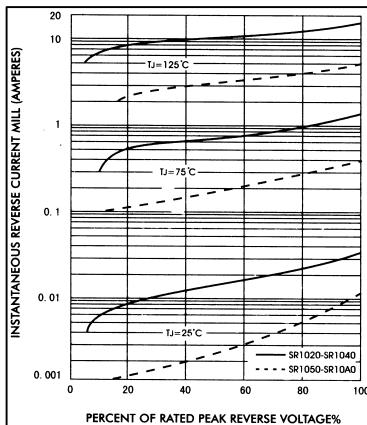
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RATINGS AND CHARACTERISTIC CURVES SR1020 THRU SR10A0**FIG.1-FORWARD CURRENT DERATING CURVE****FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS****FIG.5-TYPICAL JUNCTION CAPACITANCE****FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT****FIG.4-TYPICAL REVERSE CHARACTERISTICS****FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE**