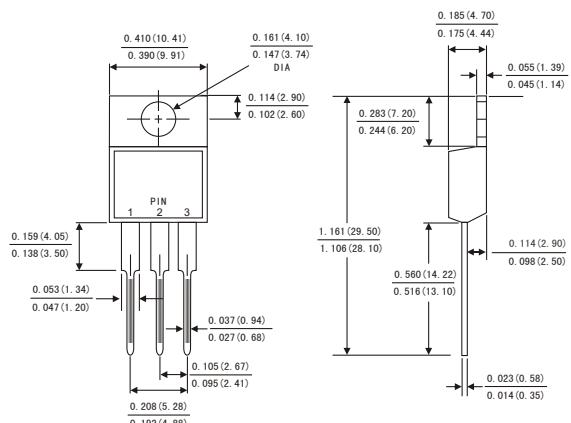


FEATURES

- 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
- High temperature soldering guaranteed:260°C/10 seconds,
0.25"(6.35mm)from case

TO-220AB



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC TO-220AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any

Weight: 0.08ounce, 2.24 gram

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	SR 820CT	SR 830CT	SR 840CT	SR 850CT	SR 860CT	SR 880CT	SR 8100CT	SR 8150CT	SR 8200CT	Units		
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts		
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts		
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts		
Maximum average forward rectified current(see Fig.1)	I _(AV)	4.0 8.0								Amps			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150.0								Amps			
Maximum instantaneous forward voltage at 8.0 A(Notes 1)	V _F	0. 60		0.75		0.85		0.90	0.95	Volts			
Maximum instantaneous reverse current at rated DC blocking voltage(Notes 1)	I _R	0.2								mA			
T _A =25°C		15		50									
Typical thermal resistance (Notes 2)	R _{θJC}	2.5								°C/W			
Operating junction temperature range	T _J	-65 to +150								°C			
Storage temperature range	T _{STG}	-65 to +150								°C			

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

2.Thermal resistance from junction to case



星合电子
XINGHE ELECTRONICS

SR820CT THRU SR8200CT

SCHOTTKY BARRIER RECTIFIER
Reverse Voltage - 20 to 200 Volts
Forward Current - 8.0 Amperes

FIG.1-FORWARD CURRENT DERATING CURVE

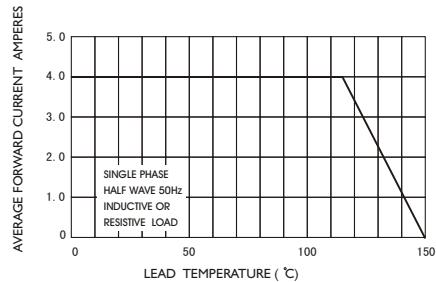


FIG.4-TYPICAL JUNCTION CAPACITANCE

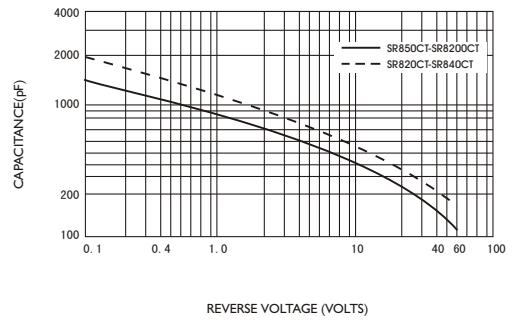


FIG.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

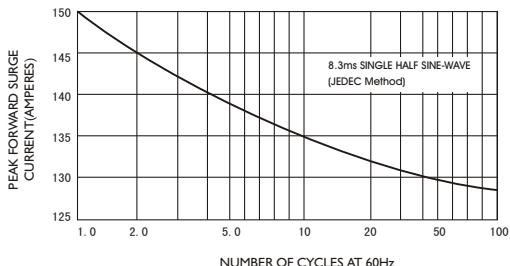


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

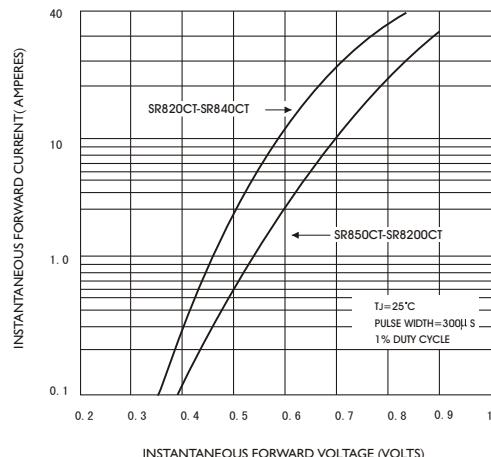


FIG.3-TYPICAL REVERSE CHARACTERISTICS

