星合电子
XINGHE ELECTRONICS

SR1020CT THRU SR10200CT

SCHOTTKY BARRIER RECTIFIER

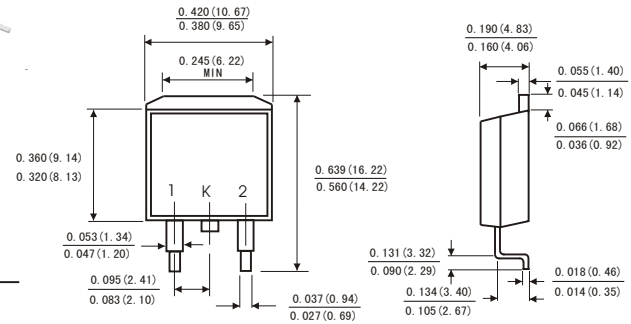
Reverse Voltage - 20 to 200 Volts
Forward Current - 10.0Amperes

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:260°C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



TO-263
D2PAK



Dimensions in inches and (millimeters)

MECHANICAL DATA

- *Case*: JEDEC TO-263 molded plastic body
- *Terminals*: Solderable per MIL-STD-202,method 208
- *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 1020CT	SR 1030CT	SR 1040CT	SR 1050CT	SR 1060CT	SR 1080CT	SR 10100CT	SR 10150CT	SR 10200CT	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) — Per leg	$I_{(AV)}$	5.0									Amps
Maximum average forward rectified current(see Fig.1) — Total device	$I_{(AV)}$	10.0									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 10.0 A(Note 1)	V_F	0. 60			0.75		0.85		0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1) — T_A =25°C	I_R	0.2									mA
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1) — T_A =125°C	I_R	15			50						mA
Typical thermal resistance (Note 2)	$R_{\theta JC}$	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

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FIG.1-FORWARD CURRENT DERATING CURVE

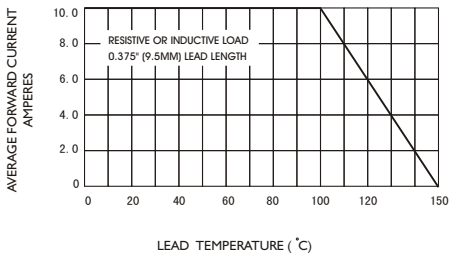


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

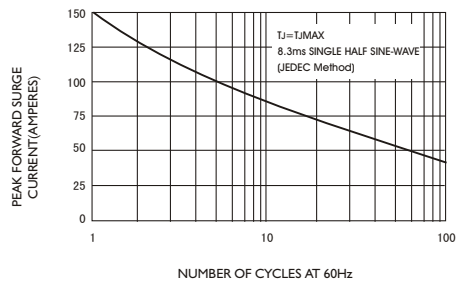


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

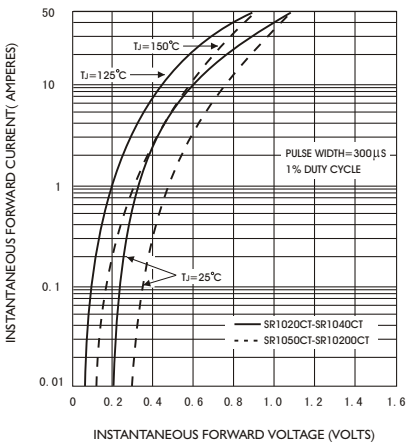


FIG.4-TYPICAL REVERSE CHARACTERISTICS

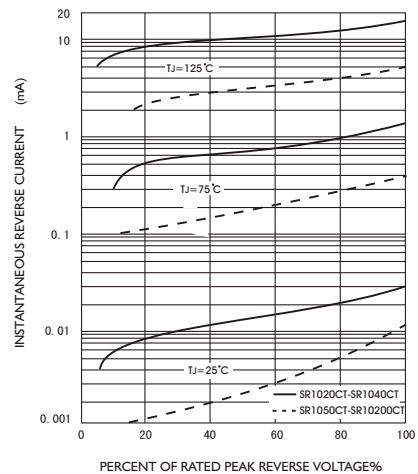


FIG.5-TYPICAL JUNCTION CAPACITANCE

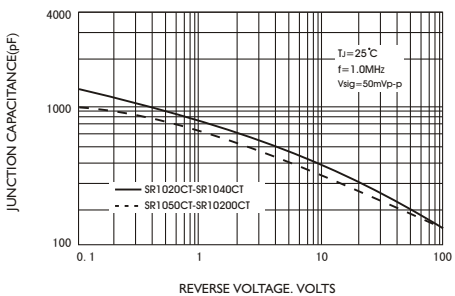
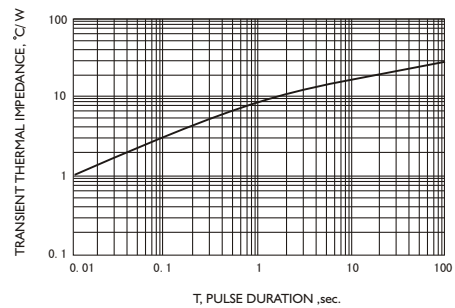


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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