SR20X0CT SERIES

SCHOTTKY BARRIER RECTIFIER

产品规格确认书

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SR2020CT THRU SR20200CT

SCHOTTKY BARRIER RECTIFIER

康 比 電 子
HORNBY ELECTRONIC

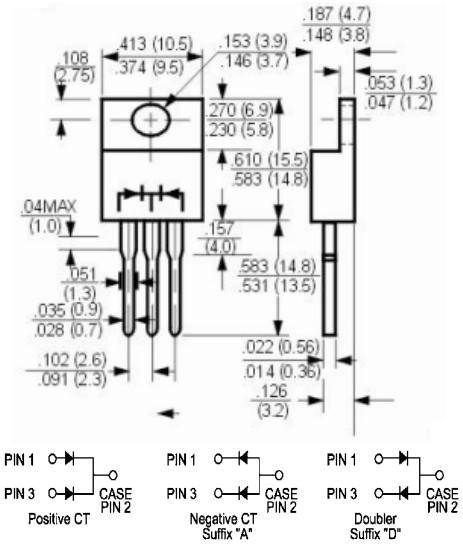
REVERSE VOLTAGE: **20 to 200 VOLTS**

FORWARD CURRENT: **20.0 AMPERE**

FEATURES

- Plastic package has UL flammability classification 94V-0
- Metal of silicon rectifier,majority carrier conduction
- Guard ring for transient protection
- High capability
- Low power loss, high efficiency
- High current capability, low V_F
- High surge capacity
- For use in low voltage,high frequency inverters,free whelling,and polarity protection applications

TO-220



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, TO-220

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202 method 208 guaranteed

Polarity: As marked

Mounting position: Any

Weight: 0.08ounce, 2.24gram

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave, 60H_Z, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	SR2020CT	SR2030CT	SR2040CT	SR2050CT	SR2060CT	SR2080CT	SR20100CT	SR20150CT	SR20200CT	Units
Maximum Recurrent 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	80	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	$I_{(AV)}$	20.0									**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	200									**Amp**
Maximum Forward Voltage at 10.0A DC and 25℃	V_F	0.55			0.70		0.85		0.95		**Volts**
Maximum Reverse Current at T_C=25℃	I_R	1.0							0.2		**mAmp**
at Rated DC Blocking Voltage T_C=100℃		50									
Typical Junction Capacitance (Note 1)	C_J	700			500						**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2									**℃/W**
Operating Temperature Range	T_J	-55 to +125			-55 to +150						**℃**
Storage Temperature Range	Tstg	-55 to +150									**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance from Junction to Case Per Leg

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RATINGS AND CHARACTERISTIC CURVES

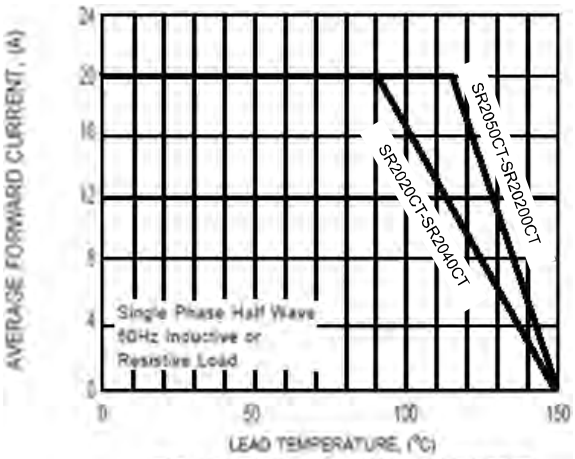


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

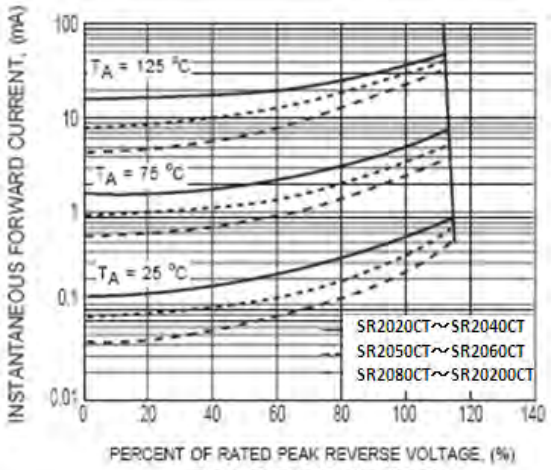


FIG.2 TYPICAL REVERSE CHARACTERISTICS

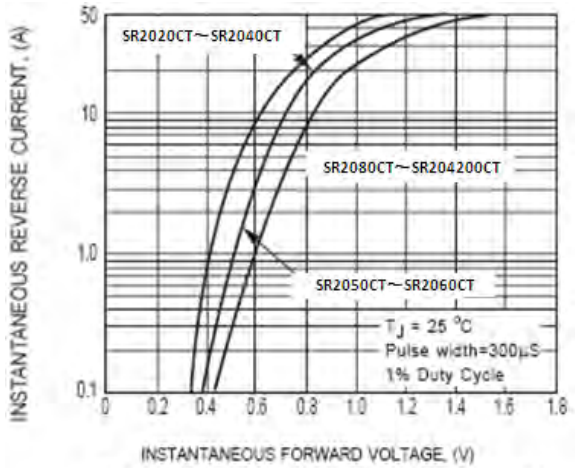


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

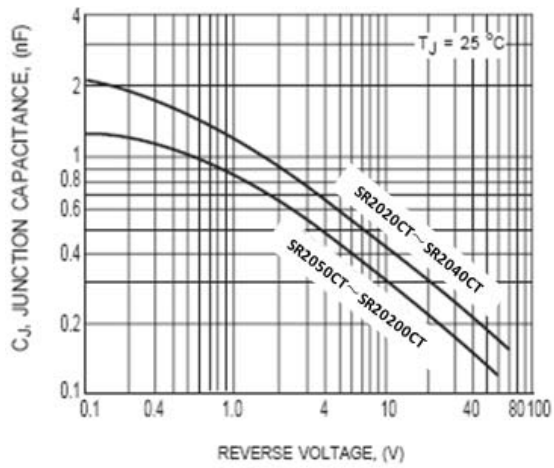


FIG.4 TYPICAL JUNCTION CAPACITANCE

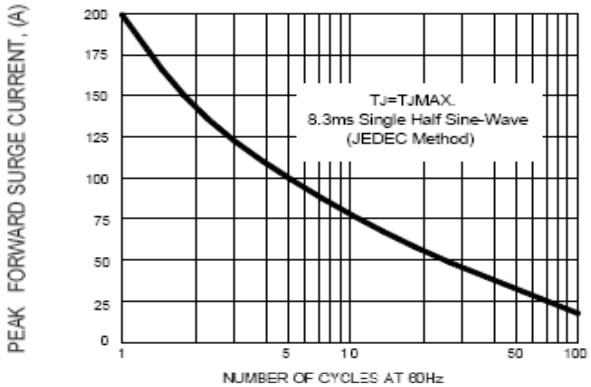


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

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