

SR1620CT THRU SR16200CT *SCHOTTKY BARRIER RECTIFIER*

(HB) 康 比 電 子 HORNBY ELECTRONIC

REVERSE VOLTAGE: FORWARD CURRENT:

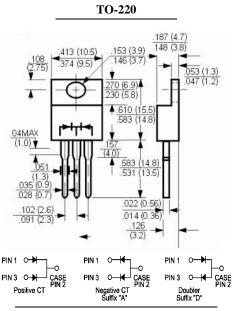
20 to 200 VOLTS 16.0 AMPERE

FEATURES

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

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



Dimensions in inches and (millimeters)

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	SR1620CT	SR1630CT	SR1640CT	SR1650CT	SR1660CT	SR1680CT	SR16100C1	SR16150CT	SR16200CT	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	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	Lun	16.0									Amp
See Fig. 1	I _(AV)										
Peak Forward Surge Current,											
8.3ms single half-sine-wave	I _{FSM} 200									Amp	
superimposed on rated load (JEDEC method)											
Maximum Forward Voltage	VF		0.55		0	70	0	85	0	5	Volts
at 8.0A DC and 25°C	۰F	0.55			0.70		0.85		0.95		VOItS
Maximum Reverse Current at T _C =25°C	I _R	0.5									mAmp
at Rated DC Blocking Voltage T_{C} =100 °C	IR		50								
Typical Junction Capacitance (Note 1)	CJ		700			500					pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2.0									°C/W
Operating Temperature Range	TJ	-55 to +125 -55 to +150							°C		
Storage Temperature Range	Tstg	-55 to +150									ĉ

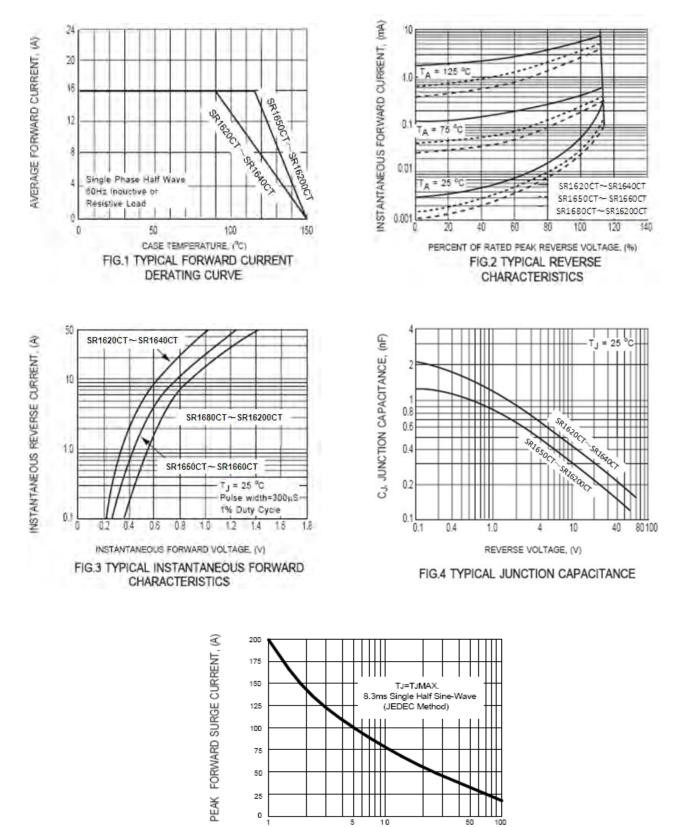
NOTES:

1- Measured at 1 $\ensuremath{\mathsf{MH}}\xspace_Z$ 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



NUMBER OF CYCLES AT 60Hz FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

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