RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

SR20H300C

SCHOTTKY BARRIER RECTIFIER

VOLTAGE 300 Volts CURRENT 20.0 Ampere

FEATURES

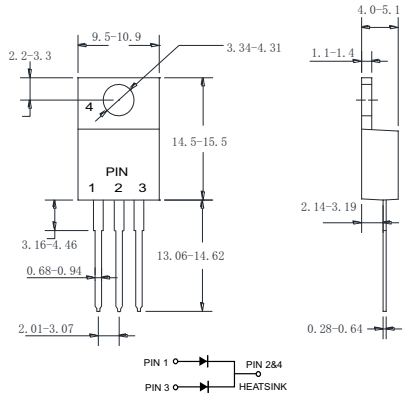
* Low switching noise
* Low forward voltage drop
* Low thermal resistance
* High current capability
* High switching capability
* High surge capabitity
* High reliability

MECHANICAL DATA

* Case: To-220 molded plastic
* Epoxy: Device has UL flammability classification 94V-O
* Lead: MIL-STD-202E method 208C guaranteed
* Mounting position: Any



TO-220



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
resistive or inductive load.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	SR20H300C	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	300	Volts
Maximum RMS Voltage	V_{RMS}	210	Volts
Maximum DC Blocking Voltage	V_{DC}	300	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	I_O	20	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	200	Amps
Current Squarad Time	I^2t	167	A^2/Sec
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	2.0	°C/W
	$R_{\theta JA}$	22	
Operating Temperature Range	T_J	-55 to + 175	°C
Storage Temperature Range	T_{STG}	-55 to + 175	°C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SR20H300C	UNITS
Maximum Forward Voltage At 10.0A DC		V_F	0.975	Volts
Maximum Average Reverse Current	@T_A = 25°C	I_R	50	uA
at Rated DC Blocking Voltage	@T_A = 150°C		10	mA

NOTES : 1. Thermal Resistance : Heat-sink mounted.
2. Suffix "A" = Common Anode.

2019-09/47
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RATING AND CHARACTERISTICS CURVES (SR20H300C)

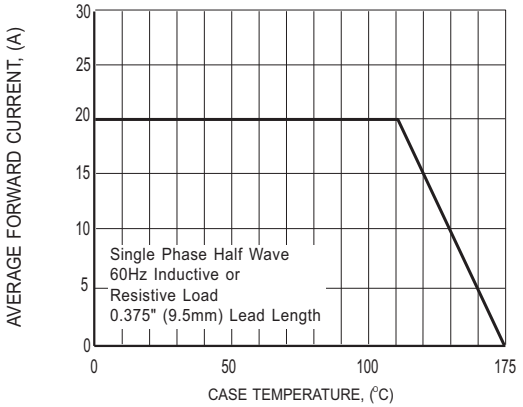


FIG.1 TYPICAL FORWARD CURRENT

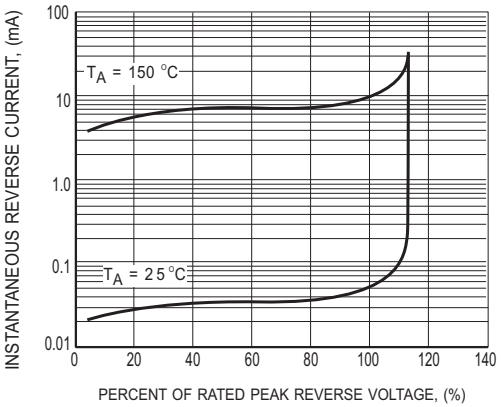


FIG.2 MAXIMUM REVERSE CHARACTERISTICS

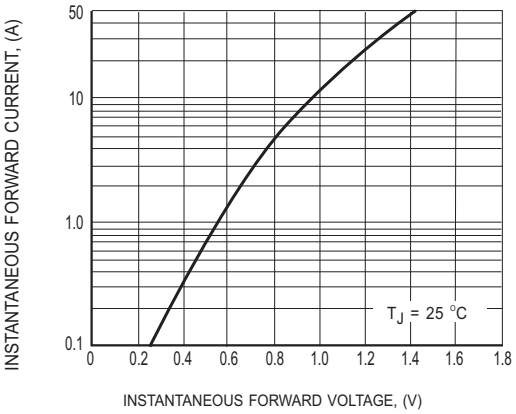


FIG.3 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

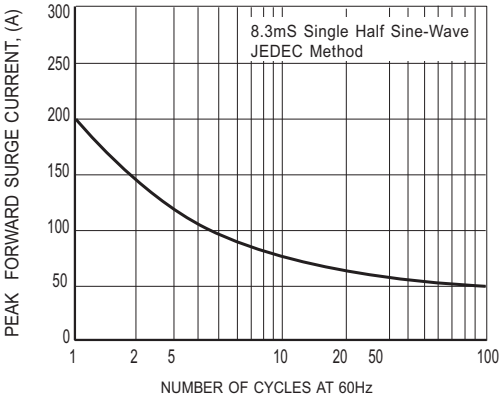
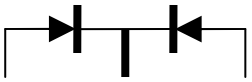


FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

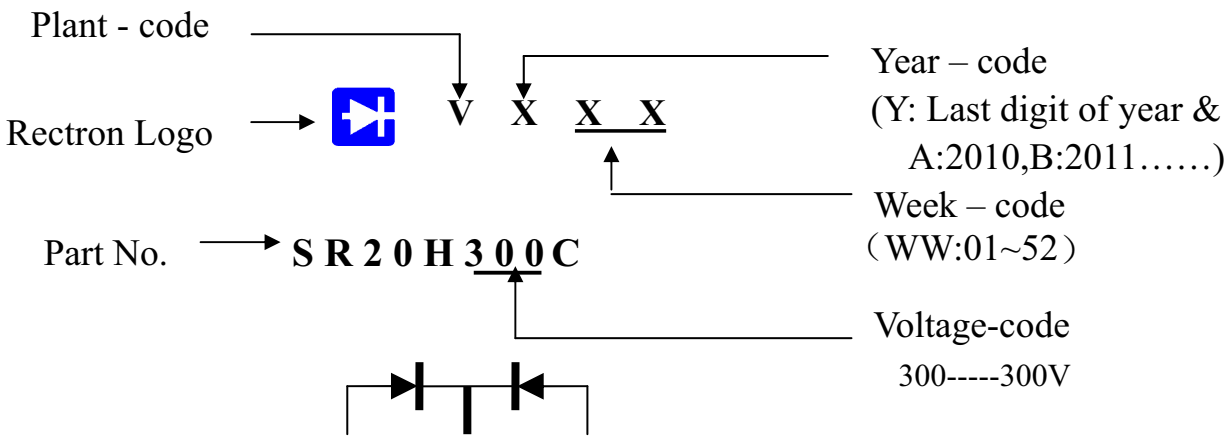
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Attachment information about SR20H300C

1. Internal Circuit



2. Marking on the body



3. Items marked on the inner box and carton

3.1 On the box (for –C)

CUSTOMER
TYPE
LOT NO.
QUANTITY
Q.A.
DATE

3.2 On the carton

CUSTOMER
TYPE
QUANTITY
LOT NO.
REMARK

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
(I)TO-220/TO-220(A)	-C	2,000	550*140*92	572*308*120	4,000	11.80

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