

SCHOTTKY BARRIER RECTIFIER **VOLTAGE RANGE 100 Volts CURRENT 20.0 Ampere**

FEATURES

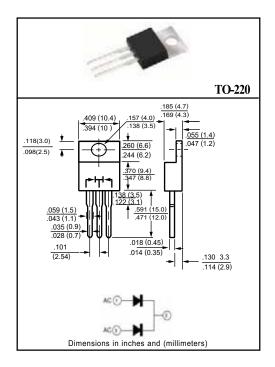
- * Low switching noise
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



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

RATINGS	SYMBOL	SR20H100C	UNITS	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	Volts	
Maximum RMS Voltage	V _{RMS}	70	Volts	
Maximum DC Blocking Voltage		100	Volts	
Maximum Average Forward Rectified Current at Derating Case Temperature	I _O	20.0	Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150	Amps	
Typical Current Square Time	I ² T	93	A ² S	
Typical Thermal Resistance (Note 1)	R _{θJC}	2.0	°C/W	
Typical Thermal Resistance (Note 1)		40		
Typical Junction Capacitance (Note 3)	CJ	500	pF	
Operating Temperature Range	TJ	-55 to + 175	°C	
Storage Temperature Range	T _{STG}	-55 to + 175	۰c	

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

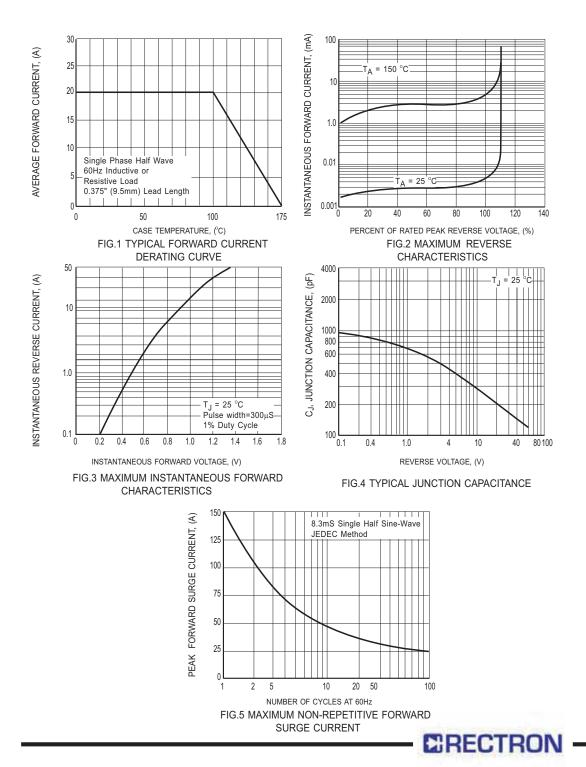
CHARACTERISTICS		SYMBOL	SR20H100C	UNITS
Maximum Instantaneous Forward Voltage at 10.0A DC		V _F	.88	
Maximum Average Reverse Current	@T _A = 25°C	I _R	5.0	uA
at Rated DC Blocking Voltage	@T _A = 150°C		5.0	mA

NOTES: 1. Thermal Resistance: Heat-sink mounted.

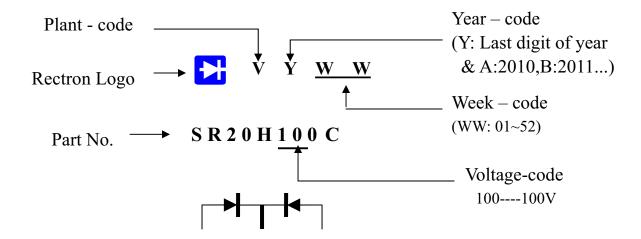
- Suffix "A" = Common Anode.
 Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 4. " ROHS compliant"

2019-01/52 REV:0

RATING AND CHARACTERISTICS CURVES (SR20H100C)



Marking Description



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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