

## SCHOTTKY BARRIER RECTIFIER **VOLTAGE 100 Volts CURRENT 20 Amperes**

#### **FEATURES**

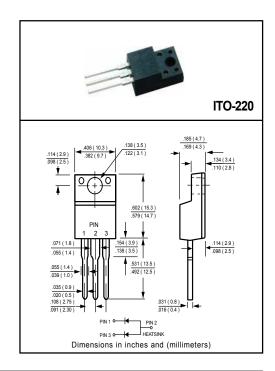
- \* Low switching noise
- \* Low forward voltage drop
- \* Low thermal resistance
- \* High current capability
- \* High switching capability
- \* High surge capabitity
- \* High reliability

#### **MECHANICAL DATA**

- \* Case: ITO-220 molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any \* Weight: 2.24 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °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 (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	ISR20100A	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	100	Volts
Maximum RMS Voltage	VRMS	70	Volts
Maximum DC Blocking Voltage	VDC	100	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	Io	20	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150	Amps
Typical Thermal Resistance (Note 1)	RθJC	3	°C/W
Typical Junction Capacitance (Note 3)	Cı	500	pF
Operating Temperature Range	TJ	150	٥C
Storage Temperature Range	Тѕтс	-55 to + 150	٥C

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

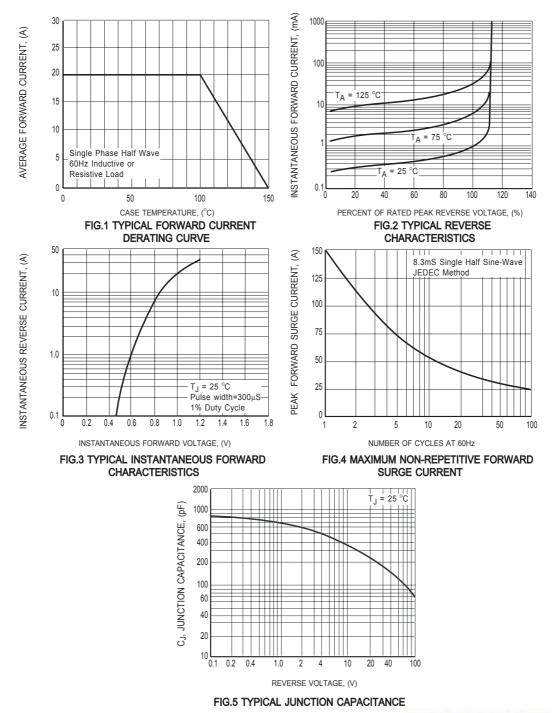
CHARACTERISTICS		SYMBOL	ISR20100A	UNITS
Maximum Instantaneous Forward Voltage at 10.0A DC		VF	.85	Volts
Maximum Average Reverse Current	@TA = 25°C	lR	1.0	mAmps
at Rated DC Blocking Voltage	@TA = 100°C		100	mAmps

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

- 2. Suffix "C" = Common Cathode.
- 3. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
  4. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2007-1

# RATING AND CHARACTERISTICS CURVES (ISR20100A)





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