

**SCHOTTKY BARRIER RECTIFIER**

**VOLTAGE RANGE 100 Volts CURRENT 10 Amperes**

**FEATURES**

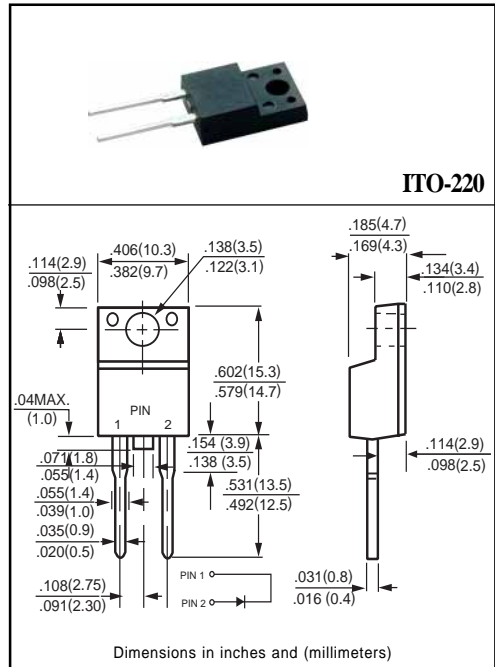
- \* Low switching noise
- \* Low forward voltage drop
- \* Low thermal resistance
- \* High current capability
- \* High switching capability
- \* High surge capability
- \* High reliability

**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	ISR10100	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	10	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)	CJ	500	pF
Operating Temperature Range	TJ	-55 to + 150	°C
Storage Temperature Range	TSTG	-55 to + 150	°C

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

CHARACTERISTICS	SYMBOL	ISR10100	UNITS
Maximum Instantaneous Forward Voltage at 10.0A DC	VF	.80	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	IR	190	uAmps
		15	mAmps

- NOTES : 1. Thermal Resistance Junction to Case.  
 2. Suffix "A" = Common Anode.  
 3. Measured at 1 MHz and applied reverse voltage of 4.0 volts.  
 4 "Fully ROHS compliant", "100% Sn plating (Pb-free)".

# RATING AND CHARACTERISTIC CURVES (ISR10100)

