# SCHOTTKY BARRIER RECTIFIER

## Reverse Voltage - 100 V Forward Current - 8 A

#### Features

- Schottky barrier chip
- Guard ring die construction for transient protection
- High surge capability
- Low power loss, high efficiency
- High current capability, Low forward voltage drop
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

#### **Mechanical Data**

- Case: Molded plastic, TO-220A
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: As marked
- Mounting position: Any

### **Maximum Ratings and 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%.

Parameter	Symbols	SR8100	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	V
Maximum Average Forward Rectified Current at T <sub>C</sub> = 25 °C	I <sub>F(AV)</sub>	8	А
Non-Repetitive Peak Forward Surge Current, 8.3 ms Single Half Sine-wa Superimposed on Rated Load (JEDEC method)	IVE I <sub>FSM</sub>	150	А
Maximum Forward Voltage at 8 A and $T_C = 25 ^{\circ}C$	V <sub>F</sub>	0.72	V
Maximum Reverse Current Rated DC Blocking Voltage at $T_c = 25$ at $T_c = 12$		0.55 7	mA
Typical Junction Capacitance <sup>1)</sup>	CJ	350	pF
Typical Thermal Resistance Junction to Case <sup>2)</sup>	R <sub>0JC</sub>	2	K/W
Operating Temperature Range	TJ	- 55 to + 150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 175	°C

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V.

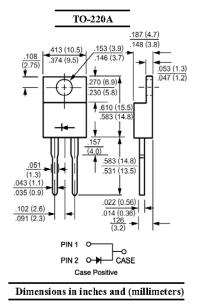
<sup>2)</sup> Thermal Resistance from Junction to case mounted on heatsink.

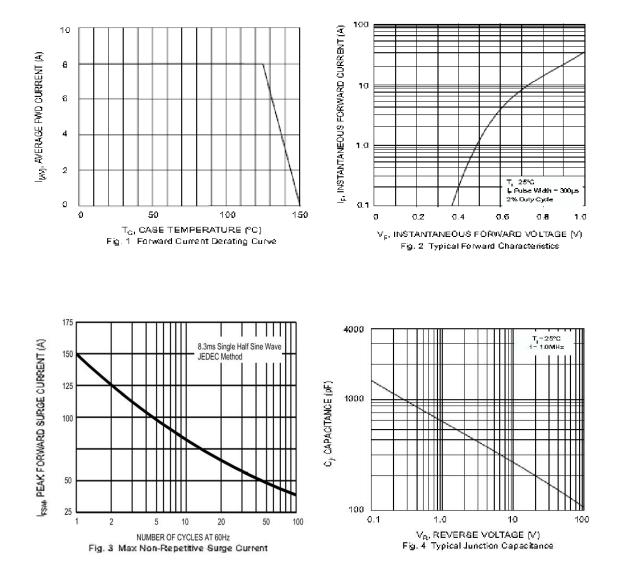




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