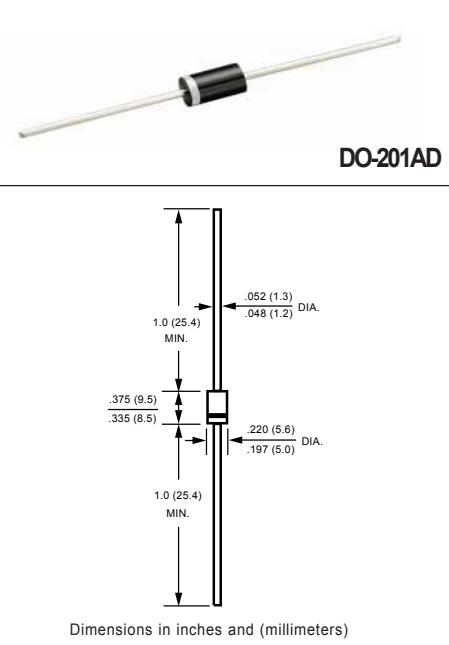


**SCHOTTKY BARRIER RECTIFIER**
**VOLTAGE RANGE 20 to 200 Volts CURRENT 3.0 Amperes**
**FEATURES**

- \* High reliability
- \* Low switching loss
- \* Low forward voltage drop
- \* High current capability
- \* High switching capability

**MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-O
- \* Case: Molded plastic
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting: position: Any
- \* Weight: 1.18 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 (@ TA=25 °C unless otherwise noted)**

RATINGS	SYMBOL	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature	I <sub>O</sub>							3.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>						80				Amps
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>					40					°C/W
	R <sub>θJL</sub>					10					
Typical Junction Capacitance (Note 3)	C <sub>J</sub>					200					pF
Operating Temperature Range	T <sub>J</sub>					150					°C
Storage Temperature Range	T <sub>STG</sub>						-55 to + 150				°C

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

CHARACTERISTICS	SYMBOL	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC	V <sub>F</sub>		.55		.75			.85			Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>					0.2					mA

 NOTES : 1. Thermal Resistance : At 9.5mm lead lengths, PCB mounted.  
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.□  
 3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2006-11

## RATING AND CHARACTERISTICS CURVES ( SR320 THRU SR3200 )

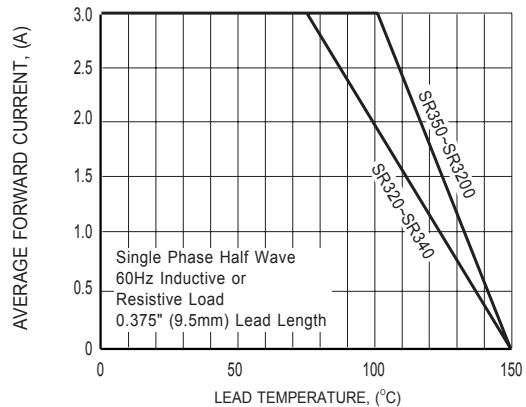


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

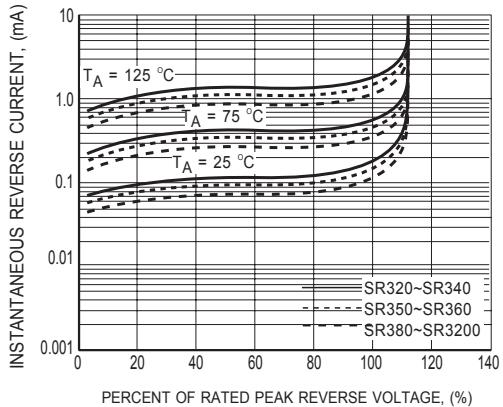


FIG.2 TYPICAL REVERSE CHARACTERISTICS

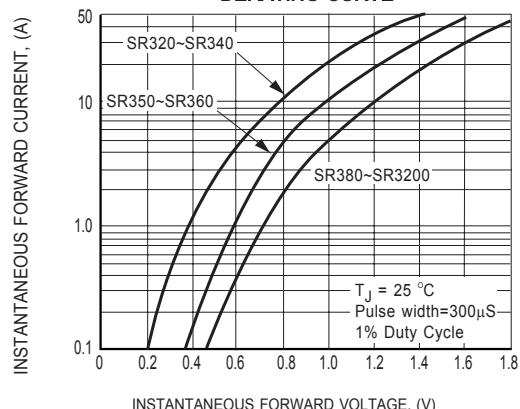


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

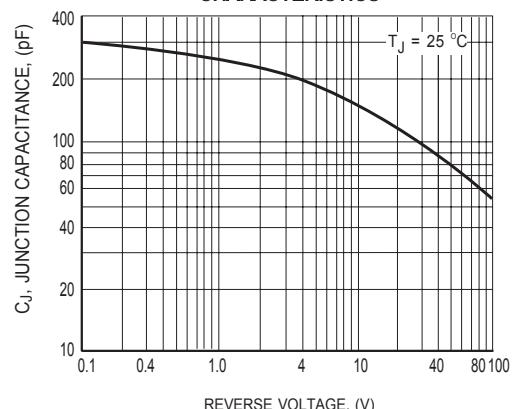


FIG.4 TYPICAL JUNCTION CAPACITANCE

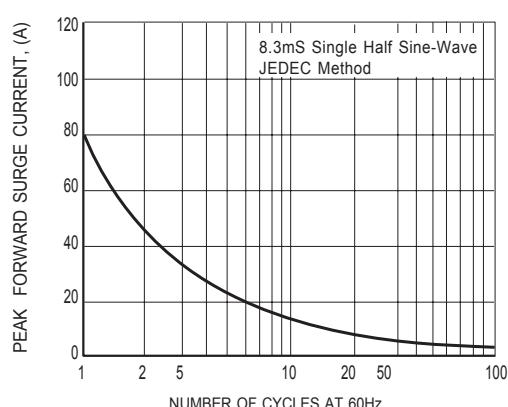


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

**RECTRON**

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