



2009-10 REV:A

## SCHOTTKY BARRIER RECTIFIER

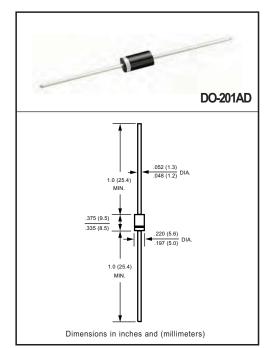
VOLTAGE RANGE 20 to 200 Volts CURRENT 5.0 Amperes

#### **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



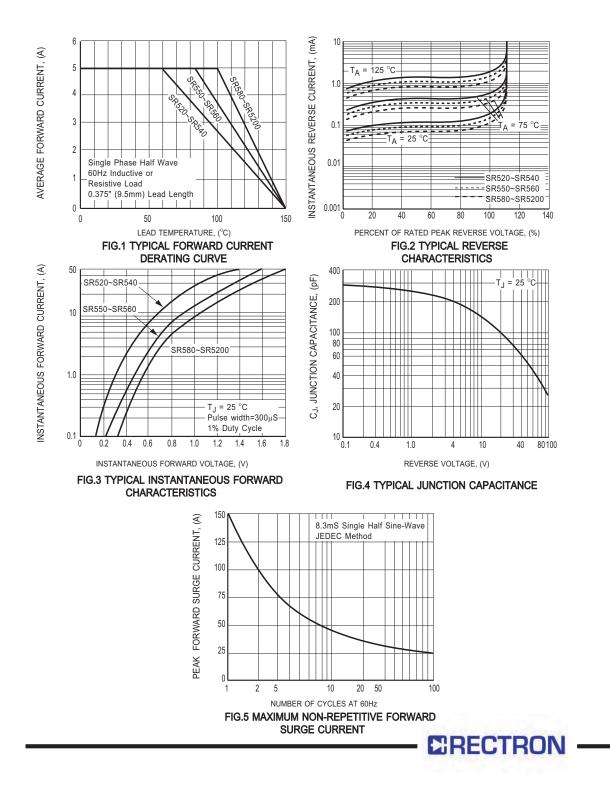
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

resistive or inductive load.

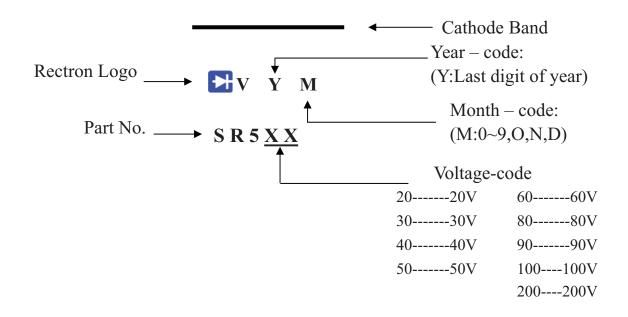
RATINGS			SR520	SR530	SR540	SR550	SR560	SR580	SR5100	SR5150	SR5200	UNITS
Maximum Recurrent Peak Reverse Voltage			20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage			14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	Volts	
Maximum Average Forward Rectified Current at Derating Lead Temperature			5.0								Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)			150								Amps	
Typical Current Squared Time			93.3								A <sup>2</sup> S	
Typical Thermal Resistance (Note 1)		R <sub>θJA</sub>	25								°C/W	
	R <sub>θJL</sub>	8										
Typical Junction Capacitance (Note 3)	CJ	200								pF		
Operating Temperature Range	TJ	150								° C		
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150								° C		
ELECTRICAL CHARACTERISTICS(@TA	=25 °C unless o	therwise n	oted)									
CHARACTERISTICS	SYMBOL	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	SR5150	SR5200	UNITS	
Maximum Instantaneous Forward Voltage	VF	.55 .75 .85						Volts				
Maximum Average Reverse Current @T <sub>A</sub> = 25°C		I <sub>R</sub>	0.2								mA	
at Rated DC Blocking Voltage			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)".

## RATING AND CHARACTERISTICS CURVES (SR520 THRU SR5200)



# **Marking Description**





# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### BULK PACK

PACKAG	E	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-20	1	-B	500	300*73*40	347*320*271	12,000	15.9

### REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-201	-T	1,200	1,200	5.0	52	330	355*350*335	4,800	9.10

### AMMO PACK

PACKAGE	PACKING	REEL	COMPONENT	TAPE SPACE	BOX SIZE	CARTON	CARTON	GROSS
	CODE	( EA )	SPACE(mm)	(mm)	(mm)	SIZE(mm)	(EA)	WEIGHT (Kg)
DO-201	-F	600	9.5	52	255*73*100	400*268*225	6,000	9.9

# **C**RECTRON —

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