SR0220 **THRU** SR02200

LOW Vf SCHOTTKY BARRIER RECTIFIER

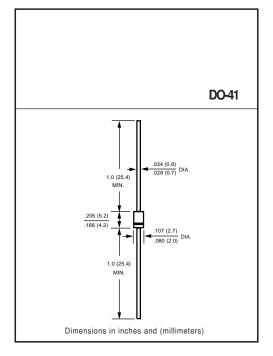
VOLTAGE RANGE 20 to 200 Volts CURRENT 0.2 Ampere

FEATURES

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

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 0.33 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ 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)

MAXIMUM HATINGS (@ TA=25 °C unless otherwise noted)											
RATINGS	SYMBOL	SR0220	SR0230	SR0240	SR0250	SR0260	SR0280	SR02100	SR02150	SR02200	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current at T _A =110°C	I _O	0.2									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60								Amps	
Typical Current Squared Time	I ² T	14.9								A ² S	
Typical Thermal Resistance (Note 1)		50								°C/W	
Typical Thormal Hesistance (Note 1)	R _{0JL}	15									O7 W
Typical Junction Capacitance (Note 3)	CJ	110								pF	
Operating Temperature Range	TJ	150							٥C		
Storage Temperature Range T _{STG} -55 to							150		•	•	٥C

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

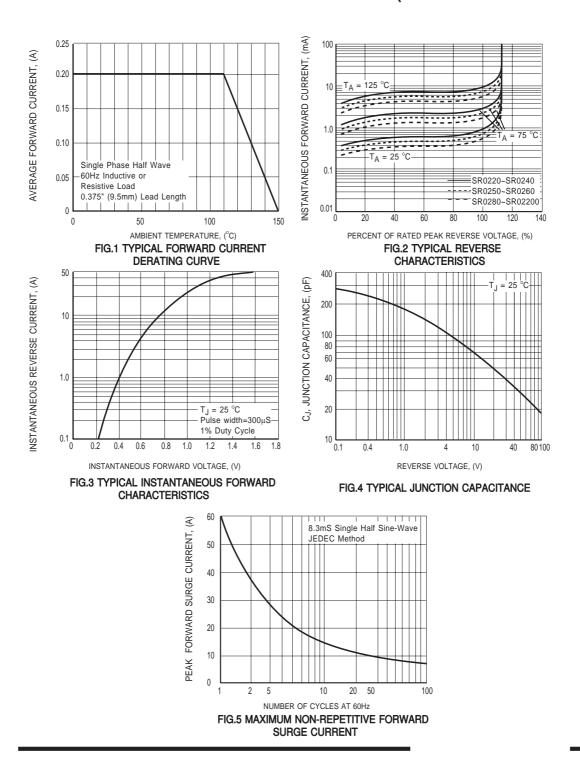
CHARACTERIS	SYMBOL	SR0220	SR0230	SR0240	SR0250	SR0260	SR0280	SR02100	SR02150	SR02200	UNITS	
Maximum Instantaneous Forward Voltage at 0.2A DC			.28							Volts		
Maximum Average Reverse Current	@T _A = 25°C						1.0					m A
at Rated DC Blocking Voltage	@T _A = 100°C	l 'R	10								m A	

NOTES: 1. Thermal Resistance: At 9.5mm lead lengths, PCB mounted.

- Measured at 1 MHz and applied reverse voltage of 4.0 volts.
 "Fully ROHS compliant", "100% Sn plating (Pb-free)".
- 4. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2010-05 REV: O

RATING AND CHARACTERISTICS CURVES (SR0220 THRU SR02200)



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-41	-B	1,000	194*75*21	415*220*255	50,000	16.2

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)		GROSS WEIGHT(Kg)
DO-41	-T	5,000	5.0	52	330	355*350*335	20,000	10.49

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
DO-41	-F	3,000	5.0	52	255*73*100	400*268*225	30,000	13.0
DO-41	-E	3,000	5.0	26	256*48*94	365*270*217	42,000	12.41

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