

SCHOTTKY BARRIER RECTIFIERS

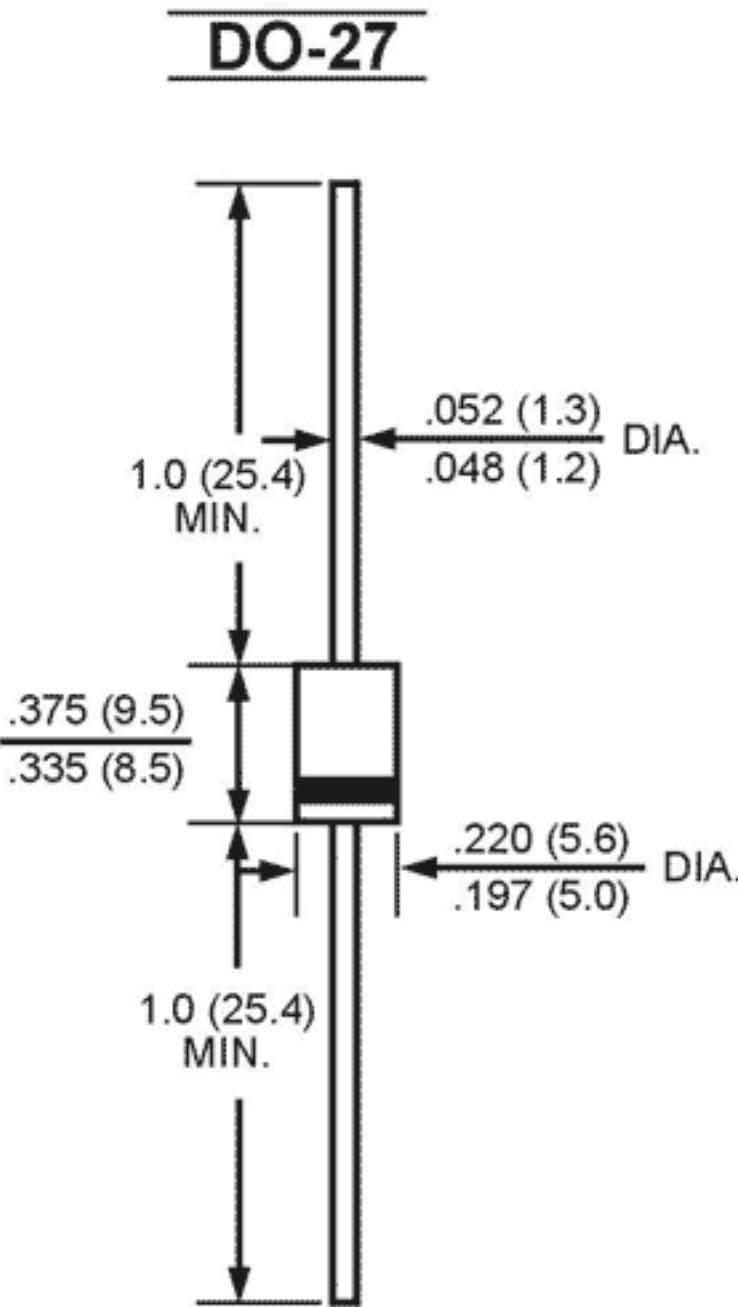
REVERSE VOLTAGE -20 to 60 Volts
FORWARD CURRENT -5.0 Amperes

FEATURES

- Metal-Semiconductor junction with guard ring
- Expitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: JEDEC DO-27 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.04 ounces, 1.1 grams
- Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	SR520	SR530	SR540	SR550	SR560	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths @T _L = 90 °C	I _(AV)	5.0					A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I _{FSM}	150					A
Maximum Forward Voltage at 5.0A DC	V _F	0.55			0.67		V
Maximum DC Reverse Current @T _J = 25 °C at Rated DC Blocking Voltage @T _J =100°C	I _R	0.5 50					uA
Typical Junction Capacitance (Note 1)	C _J	500			350		pF
Typical Thermal Resistance (Note 2)	R _{θJL}	15			10		°C/W
Operating Temperature Range	T _J	-55 to +125					°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal Resistance Junction to Lead.