

PFS

SCHOTTKY BARRIER RECTIFIER

SR220 THRU SR2200

VOLTAGE RANGE
CURRENT

20 to 200 Volts
2.0 Ampere

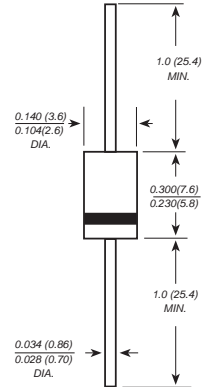
FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:
250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case : JEDEC DO-201AD molded plastic body
 Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026
 Polarity : Color band denotes cathode end
 Mounting Position : Any
 Weight : 0.04 ounce, 1.10 grams

DO-15



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	SR 220	SR 230	SR 240	SR 250	SR 260	SR 270	SR 280	SR 290	SR 2100	SR 2150	SR 2200	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	70	80	90	100	150	200	VOLTS
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	49	56	63	70	105	140	VOLTS
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	70	80	90	100	100	200	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length (see fig.1)	I <sub(av)< sub=""></sub(av)<>	2.0											Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60.0											Amps
Maximum instantaneous forward voltage at 2.0A	V _F	0.55		0.70		0.85			0.95			Volts	
Maximum DC reverse current at rated DC blocking voltage T _A =25°C T _A =100°C	I _R	0.5						0.2			mA		
		10.0			5.0			2.0					
Typical junction capacitance (NOTE 1)	C _J	220			80						pF		
Typical thermal resistance (NOTE 2)	R _{θJA}	50.0											°C/W
Operating junction temperature range	T _J	-65 to +125					-65 to +150						°C
Storage temperature range	T _{STG}	-65 to +150											°C

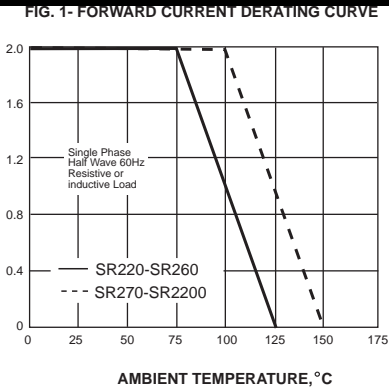
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

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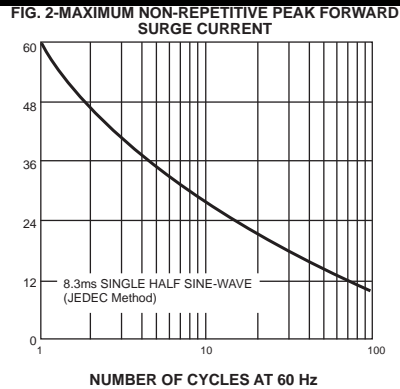
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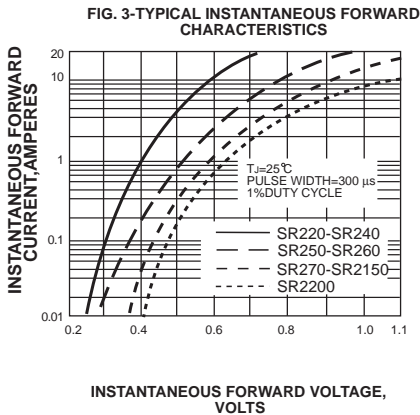
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



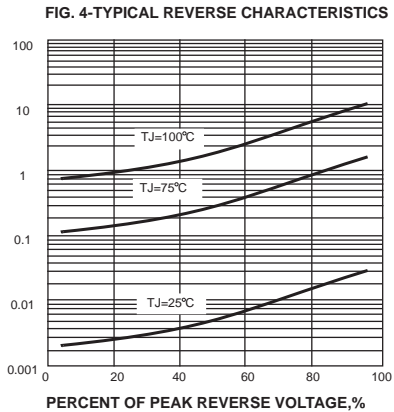
PEAK FORWARD SURGE CURRENT, AMPERES



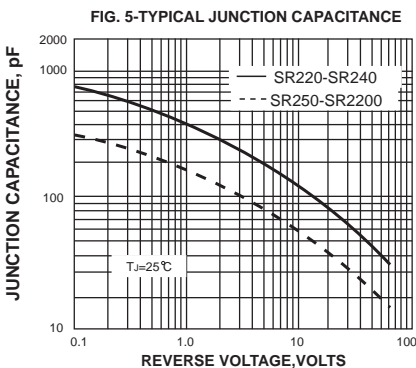
INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE, °C/W

