

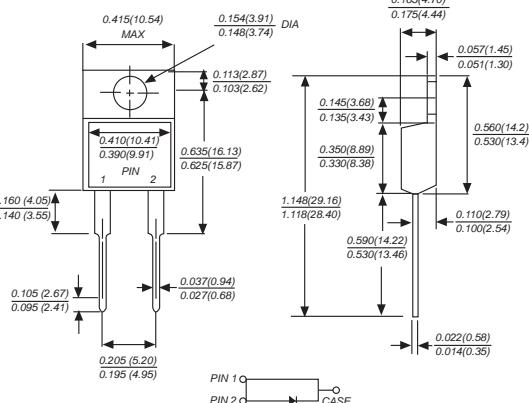


SR2020 THRU SR20A0

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 20.0 Amperes

TO-220AC



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C, 0.25" (6.35mm) from case for 10 seconds

MECHANICAL DATA

Case: TO-220AC molded plastic body

Terminals: Leads solderable per MIL-STD-750, Method 2026

Polarity: As marked

Mounting Position: Any

Weight: 0.064 ounce, 1.81 grams

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%.

MDD Catalog Number	SYMBOLS	SR 2020	SR 2030	SR 2040	SR 2045	SR 2050	SR 2060	SR 2070	SR 2080	SR 2090	SR 20A0	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	45	50	60	70	80	90	100	VOLTS
Maximum RMS voltage	V _{RMS}	14	21	28	32	35	42	49	56	63	70	VOLTS
Maximum DC blocking voltage	V _{DC}	20	30	40	45	50	60	70	80	90	100	VOLTS
Maximum average forward rectified current at T _c (see fig.1)	I _(AV)	20.0									Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150.0									Amps	
Maximum instantaneous forward voltage at 10.0A	V _F	0.55			0.75			0.85			Volts	
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	1.0									mA	
Typical junction capacitance (NOTE 1)	C _J	15.0			50.0			450			pF	
Typical thermal resistance (NOTE 2)	R _{θJC}	2.0									°C/W	
Operating junction temperature range	T _J	-65 to +125			-65 to +150			°C			°C	
Storage temperature range	T _{STG}	-65 to +150									°C	

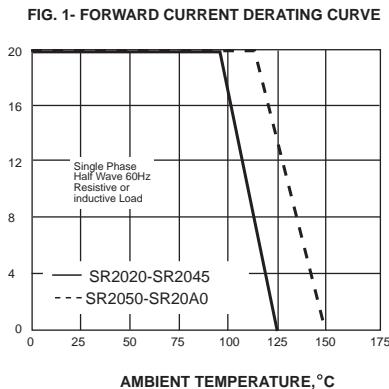
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to case

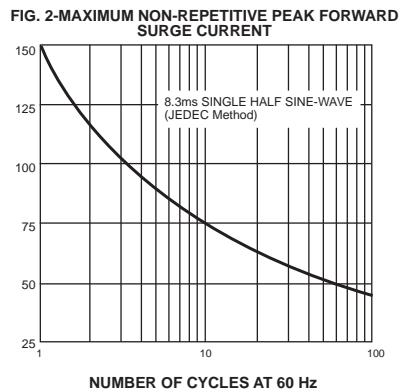
MDD ELECTRONIC

RATINGS AND CHARACTERISTIC CURVES SR2020 THRU SR20A0

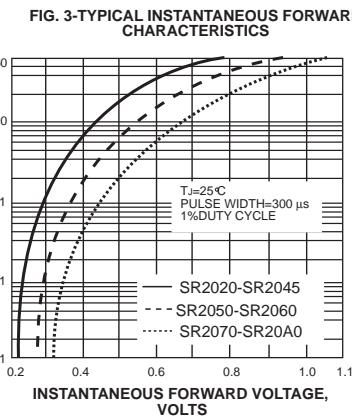
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



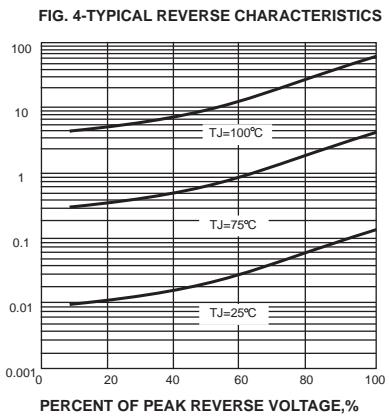
PEAK FORWARD SURGE CURRENT,
AMPERES



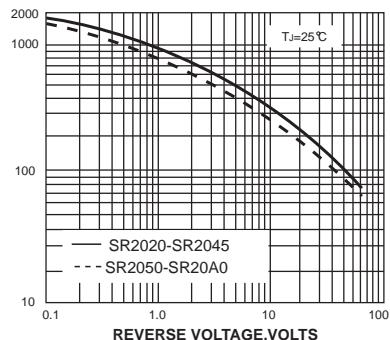
INSTANTANEOUS FORWARD
CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,
°C/W

