



SR2020 THRU SR2060

20.0 AMPS. SCHOTTKY BARRIER RECTIFIERS

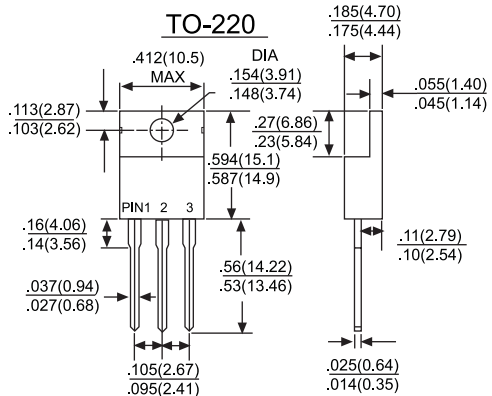
**Voltage Range
20 to 60 Volts
Current
20.0 Amperes**

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data

- Cases: TO-220 molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: As marked
- High temperature soldering guaranteed: 250°C/10 seconds/.25" (6.35mm) from case.
- Weight: 2.24 grams



Dimensions in inches and (millimeters)

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%

Type Number		SR2020	SR2030	SR2040	SR2050	SR2060	UNITS
Maximum Repetitive 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 See Fig.1	I _{F(AV)}	20.0					A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	250					A
Maximum Instantaneous Forward Voltage @10.0A	V _F	0.55			0.70		V
Maximun DC Reverse Current @ T _A = 25°C at Rated DC Blocking Voltage @ T _A = 125°C	I _R	1.0 50					mA mA
Typical Thermal Resistance(Note 1)	R _{θJC}	2.0					°C/W
Typical Junction Capacitance (Note 2)	C _J	600			400		pF
Operating Junction Temperature Range	T _J	-65 to+125			-65 to+150		°C
Storage Temperature Range	T _{STG}	-65 to+150					°C

NOTES: 1. Thermal Resistance from Junction to Case Per Leg
2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

RATING AND CHARACTERISTIC CURVES SR2020 THRU SR2060



FIG.1- FORWARD CURRENT DERATING CURVE

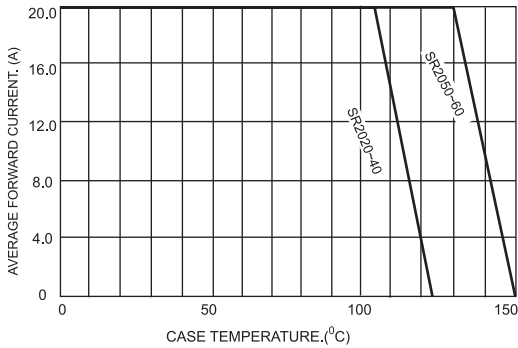


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

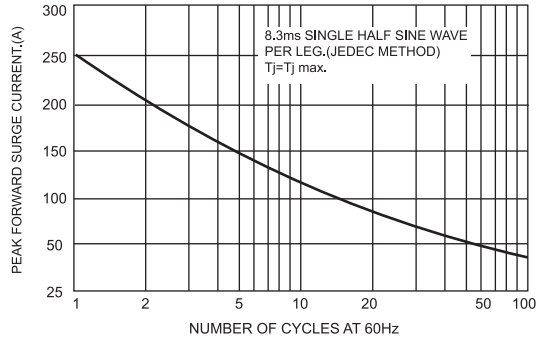


FIG.3-TYPICAL REVERSE CHARACTERISTICS PER LEG

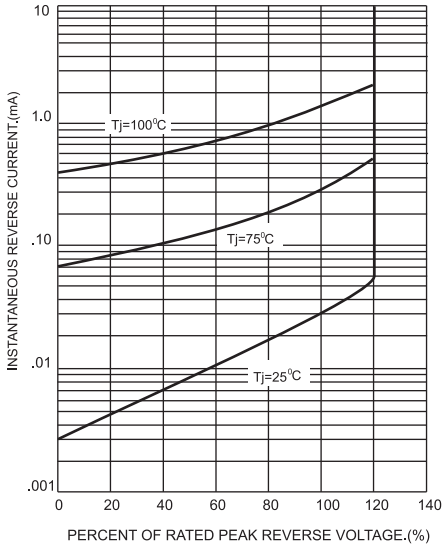


FIG.4-TYPICAL FORWARD CHARACTERISTICS PER LEG

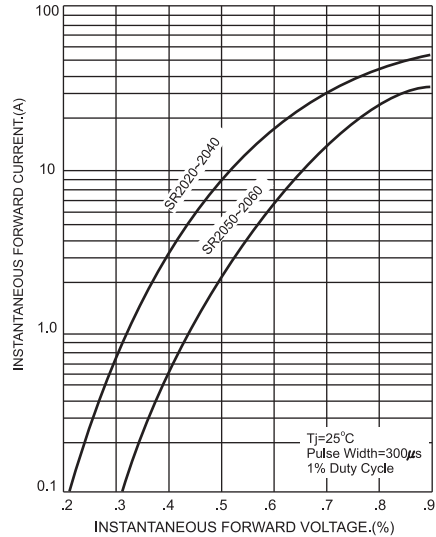


FIG.5-TYPICAL JUNCTION CAPACITANCE PER LEG

