

SR2020C THRU SR20100C

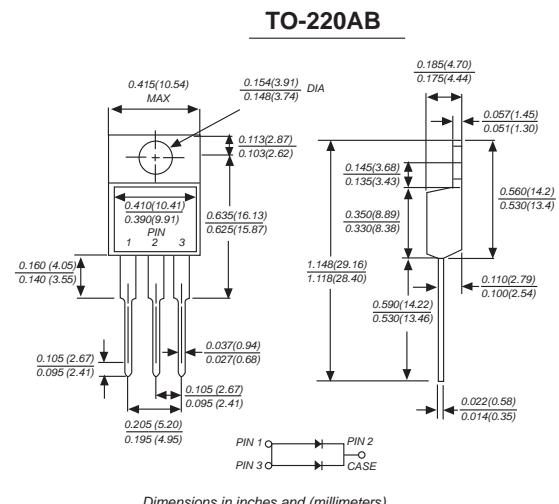
**VOLTAGE RANGE
CURRENT**
**20 to 100 Volts
20.0 Ampere**

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction,majority carrier conduction
- Guardring for overvoltage protection
- Low power loss,high efficiency
- High current capability,low forward voltage drop
- High surge capability
- For use in low voltage,high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed:
250°C/10 seconds,0.375"(9.5mm) lead length,
5 lbs. (2.3kg) tension

MECHANICAL DATA

- Case : R-1 molded plastic body
- Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.007 ounce, 0.20 gramS


Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

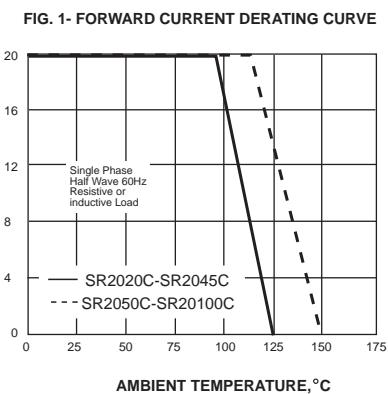
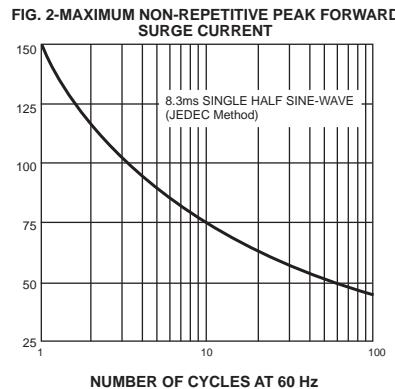
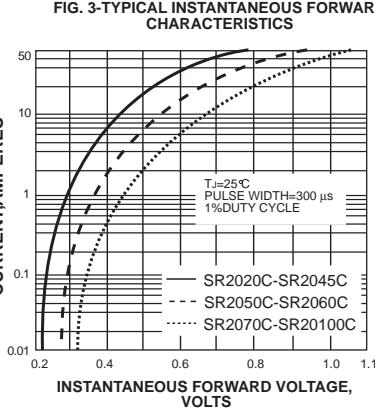
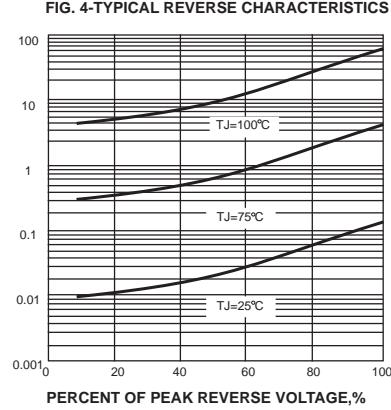
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SR 2020C	SR 2030C	SR 2040C	SR 2045C	SR 2050C	SR 2060C	SR 2070C	SR 2080C	SR 2090C	SR 20100C	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 $T_A=25^\circ C$ at rated DC blocking voltage $T_A=100^\circ C$	I_R	1.0									mA	
Typical junction capacitance (NOTE 1)	C_J	550			450			pF				
Typical thermal resistance (NOTE 2)	$R_{\theta JC}$	2.0									°C/W	
Operating junction temperature range	T_J	-65 to +125			-65 to +150			°C				
Storage temperature range	T_{STG}	-65 to +150									°C	

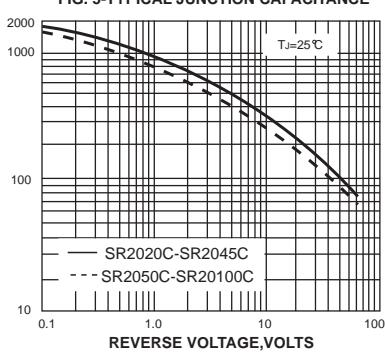
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to case

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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
