



SCHOTTKY BARRIER RECTIFIER

SR2020C THRU SR2080C

VOLTAGE RANGE
CURRENT

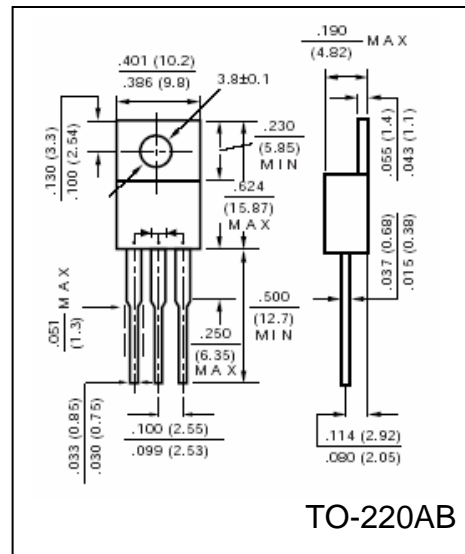
20 to 80 Volts
20.0 Ampere

FEATURES

- Dual Diode Device
- Fast switching
- Low forward voltage
- Low power loss for high efficiency
- High Surge capability
- High temperature Soldering guaranteed:
250°C/10 seconds, 0.25" (6.35mm) lead length
- Also available with common Anode, add an "A" suffix,
i.e. SR2020A, and as a doubler, add an "D" suffix,
i.e. SR2020D
- Also available in an isolate package, SRF2020C
- Also available in a single diode version, SR2020

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-202E
Method 208C
- Polarity: as marked
- Mounting Position: Any, 5.0 in-lbs Torque Max
- Weight: 0.08 ounce, 2.24 gram



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 derate current by 20%

	SYMBOLS	SR 2020C	SR 2030C	SR 2035C	SR 2040C	SR 2045C	SR 2050C	SR 2060C	SR 2080C	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	35	40	45	50	60	80	Volts
Maximum RMS Voltage	V_{RMS}	14	21	25	38	32	35	42	56	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	35	40	45	50	60	80	Volts
Maximum Average Forward Rectified Current, (Note 1) $T_L = 130^\circ\text{C}$	$I_{(AV)}$	20								Amps
Maximum Average Forward Rectified Current, (Note 1) $T_L = 130^\circ\text{C}$ per Leg	$I_{(AV)}$	10								Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	150								Amps
Maximum Instantaneous Forward Voltage per leg @ 10.0A (Note 1)	V_F	0.65						0.75	0.85	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage per element (Note 1) $T_A = 25^\circ\text{C}$	I_R	5.0								mA
$T_A = 100^\circ\text{C}$		30				50				
Typical Thermal Resistance, per leg	$R_{\theta JC}$	3.0								°C/W
Operating Junction Temperature Range	T_J	(-55 to +150)								°C
Storage Temperature Range	T_{STG}	(-55 to +150)								°C

Notes:

1. Pulse test: 300µS pulse width, 1% duty cycle



RATINGS AND CHARACTERISTIC CURVES SR2020C THRU SR2080C

