

SCHOTTKY BARIER RECTIFIER

SRF2020C THRU SRF20100C

VOLTAGE RANGE CURRENT 20 to 100 Volts 16.0 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 reverse polarity, add and "R" suffix, i.e. SRF2020R
- Also available in a non isolate package, SR2020C
- Also available in a dual diode version, SRF2020

MECHANICAL DATA

• Case: Transfer molded plastic

Epoxy: UL94V-0 rate flame retardantLead: 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

0.405 (10.27) 0.600 (15.5 0.580 (14.5) 0.560 (14.22) 0.191 (4.85) 0.530 (13.46) 0.171 (4.35) 0.060 (1.52) 0.100 (2.54) 0.037 (0.94) 0.027 (0.69) 0.022 (0.55) 0.105 (2.67) 0.095 (2.41) 0.205 (5.20) 0.195 (4.95) ITO-220AB

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	SRF 2020C	SRF 2030C	SRF 2035C	SRF 2040C	SRF 2045C	SRF 2050C	SRF 2060C	SRF 2080C	SRD 20100C	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	35	40	45	50	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	25	38	32	35	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	35	40	45	50	60	80	100	Volts
Maximum Average Forward Rectified Current, (Note 1) $T_L = 135^{\circ}C$	I _(AV)	20									Amps
Peak Forward Surge Current											Ī
8.3mS single half sine wave superimposed on	I_{FSM}	150									Amps
rated load (JEDEC method)											
Maximum Instantaneous Forward Voltage per leg @ 10.0A (Note 1)	V_{F}	0.65 0.75								Volts	
Maximum DC Reverse Current at Rated $T_A = 25$ °C	I _R 5.0									mA	
DC Blocking Voltage per element (Note 1) $T_A = 100$ °C											
Typical Thermal Resistance, per leg	$R_{\theta JC}$	3.0									OC/W
Operating Junction Temperature Range	T_{J}	(-55 to +150)									oС
Storage Temperature Range	T_{STG}	(-55 to +150)									°С

Notes:

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



RATINGS AND CHARACTERISTIC CURVES SRF2020C THRU SRF20100C











