

SCHOTTKY BARIER RECTIFIER

SRF2020 THRU SRF2060

VOLTAGE RANGE CURRENT

20 to 60 Volts 20.0 Ampere

FEATURES

- 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, SR2020
- Also available in a dual diode version, SRF2020C

MECHANICAL DATA

Case: Transfer molded plastic

• Epoxy: UL94V-0 rate flame retardant

• Lead: Solderable per MIL-STD-202E

Method 208CPolarity: as marked

Mounting Position: Any, 5.0 in-lbs Torque Max

• Weight: 0.64 ounce, 1.81 gram

0.188 (4.77) 0.172 (4.36) 0.405 (10.27) 0.383 (9.72) 0.600 (15.5) 0.676 (17.2) 0.580 (14.5) 0.350 (8.89) 0.560 (14.22) 0.191 (4.85) 0.530 (13.46) 0.110 (2.80) 0.171 (4.35) 0.060 (1.52) 0.100 (2.54) 0.037 (0.94) 0.027 (0.69) 0.022 (0.55) 0.205 (5.20) 0.014 (0.36) 0.195 (4.95) ITO-220AC

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 2020	SRF 2030	SRF 2035	SRF 2040	SRF 2045	SRF 2050	SRF 2060	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	35	40	45	50	60	Volts
Maximum RMS Voltage	V_{RMS}	14	21	25	38	32	35	42	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	35	40	45	50	60	Volts
Maximum Average Forward Rectified Current, (Note 1) $T_L = 135^{\circ}C$	I _(AV)	20							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 @ 20.0A (Note 1)	V_{F}	0.65 0.75				75	Volts		
Maximum DC Reverse Current at Rated $T_A = 25$ °C	ī	5.0							m A
DC Blocking Voltage per element (Note 1) $T_A = 100$ °C	I_R	30				50			mA
Typical Thermal Resistance, per leg	$R_{\theta JC}$	3.0						OC/W	
Operating Junction Temperature Range	T_{J}	(-55 to +150)							^o C
Storage Temperature Range	T_{STG}	(-55 to +150)							^o C

Notes:

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

RATINGS AND CHARACTERISTIC CURVES SRF2020 THRU SRF2060











