

SCHOTTKY BARIER RECTIFIER

SR3020C THRU SR3060C

VOLTAGE RANGE CURRENT

20 to 60 Volts 30.0 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, 0.17" (4.3mm) lead length
- Also available with common Anode, add an "A" suffix, i.e. SR3020A, and as a doubler, add an "D" suffix, i.e. SR3020D

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, 10 in-lbs Torque Max

Weight: 0.22 ounce, 6.3 gram

(1.1) (2.8) (1.1)

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 3020	SR 3030	SR 3035	SR 3040	SR 3045	SR 3050	SR 3060	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) $T_L = 75^{\circ}\text{C} \text{ (SR3020C-3045C)}, T_L = 100^{\circ}\text{C} \text{ (SR3050C-3080C)}$	I _(AV)	30.0							Amps
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	300							Amps
Maximum Instantaneous Forward Voltage per leg @ 15.0A (Note 1)	V_{F}	0.65 0.75					75	Volts	
Maximum DC Reverse Current at Rated $T_A = 25$ °C DC Blocking Voltage per element (Note 1) $T_A = 100$ °C	I_R	10 100						mA	
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C_{J}	750 500						pF	
Typical Thermal Resistance, per leg	$R_{\theta JC}$	1.4							^o C/W
Operating Junction Temperature Range	T_{J}	(-65 to +125) (-65 to +150				+150)	^o C		
Storage Temperature Range	T_{STG}	(-65 to +150)						^o C	

Notes:

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



RATINGS AND CHARACTERISTIC CURVES SR3020C THRU SR3060C









