



SCHOTTKY BARRIER RECTIFIER

SR602 THRU SR610

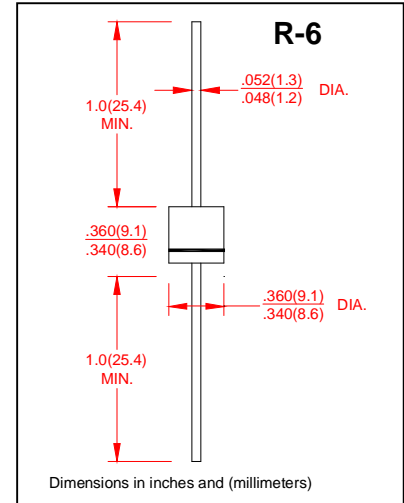
VOLTAGE RANGE 50 to 100 Volts
CURRENT 6.0 Ampere

FEATURES

- Fast switching speed
- Low forward voltage
- Low power high efficiency
- High surge capability
- High temperature soldering guaranteed
250°C/10 seconds, 0.373" (9.5mm) lead length

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.07ounce, 2.0 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	SR602	SR603	SR604	SR605	SR606	SR608	SR610	UNIT	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	Volts	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	Volts	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	Volts	
Maximum Average Forward Rectified Current 0.375" (9.5) Lead length, (Note 1) See Fig. 1	$I_{(AV)}$	$T_L = 60^\circ\text{C} (\text{SR602-604})$							6.0	Amps
		$T_L = 85^\circ\text{C} (\text{SR605-610})$								
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	150							Amps	
Maximum Instantaneous Forward Voltage @ 6.0A	V_F	0.57		0.70		0.85		Volts		
Maximum DC Reverse Current at rated DC blocking Voltage (Note 1)	I_R	$T_A = 25^\circ\text{C}$							1.0	μA
		$T_A = 100^\circ\text{C}$								
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C_J	550		450		350		pF		
Typical Thermal Resistance	$R_{\theta JL}$	10							$^\circ\text{C}/\text{W}$	
Operating Junction Temperature Range	T_J	(-55 to +150)							$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	(-55 to +150)							$^\circ\text{C}$	

Notes:

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



SCHOTTKY BARRIER RECTIFIER

SR602 THRU SR610

VOLTAGE RANGE 20 to 100 Volts
CURRENT 6.0 Amperes

RATING AND CHARACTERISTIC CURVES SR602 THRU SR610

