



## SCHOTTKY BARRIER RECTIFIER

SR602 THRU SR610

VOLTAGE RANGE

50 to 100 Volts

CURRENT

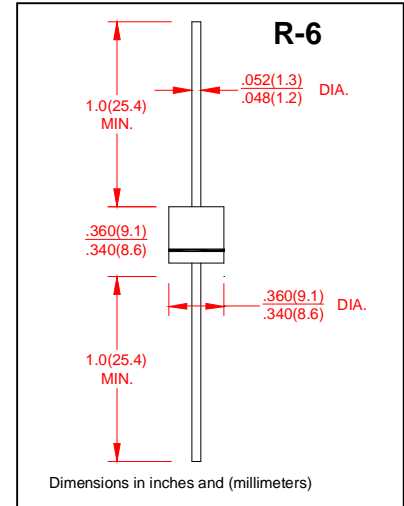
6.0 Ampere

### 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	$I_{(AV)}$	$T_L = 60^\circ\text{C}$ (SR602-604)							6.0	Amps
		$T_L = 85^\circ\text{C}$ (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	$\mu\text{A}$
		$T_A = 100^\circ\text{C}$								
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  $\mu\text{s}$  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

