



SCHOTTKY BARRIER RECTIFIER

SR602 THRU SR610

VOLTAGE RANGE

50 to 100 Volts

CURRENT

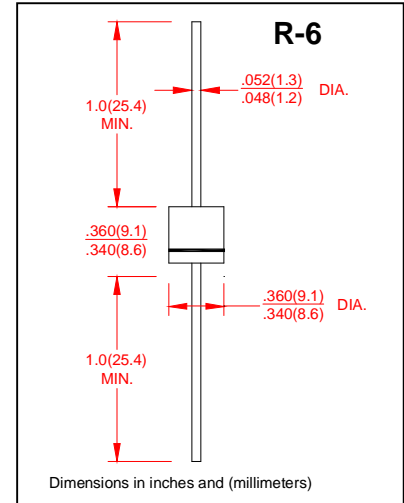
6.0 Ampere

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	$I_{(AV)}$	6.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	150							Amps
		0.57		0.70		0.85			Volts
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	1.0							μA
		50							
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							°C/W
Operating Junction Temperature Range	T_J	(-55 to +150)							°C
Storage Temperature Range	T_{STG}	(-55 to +150)							°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

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

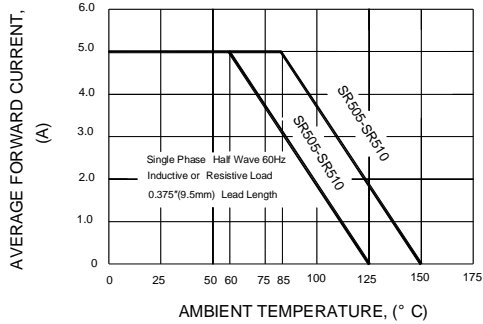


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

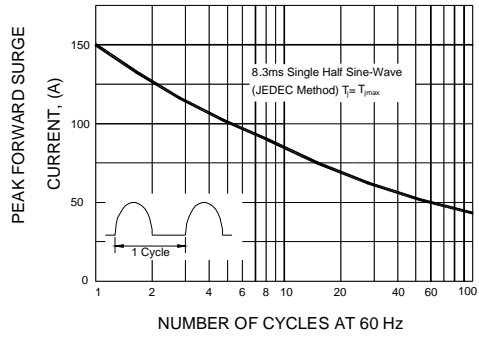


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

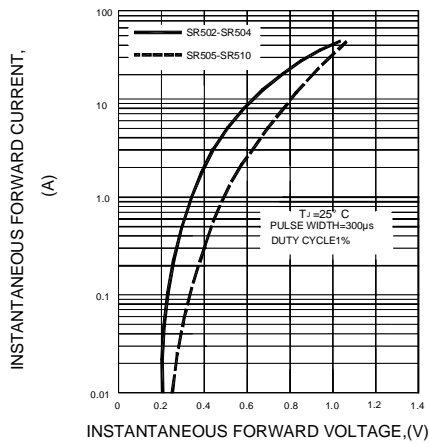


FIG.4-TYPICAL REVERSE CHARACTERISTICS

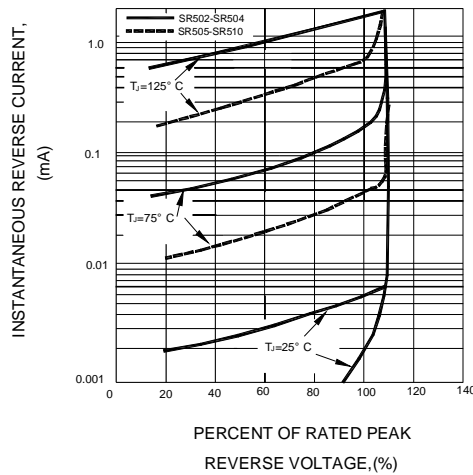


FIG.5-TYPICAL JUNCTION CAPACITANCE

