

Kingtronics®

SR120 THRU SR1200

SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE 20 to 200 Volts FORWARD CURRENT 1.0 Ampere

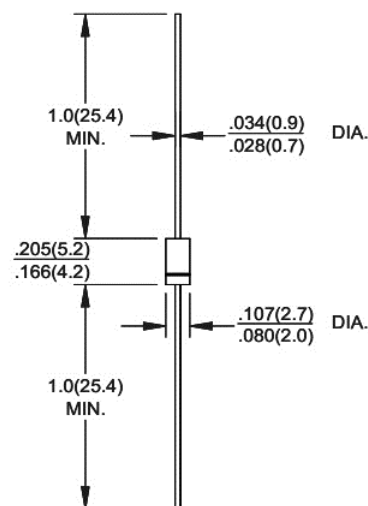
FEATURES

- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering guaranteed
- 260°C/10 seconds, 0.375" (9.5mm) lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Mold plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Indicated by cathode band
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any

DO-41



Dimensions in inches and (millimeters)

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%

PARAMETER	SYMBOL	SR 120	SR 130	SR 140	SR 150	SR 160	SR 180	SR 1100	SR 1150	SR 1200	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum Average Forward Rectified Current	$I_{(AV)}$	1.0									Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30									Amps
Maximum instantaneous forward voltage at 1.0A	V_F	0.55		0.70		0.85		0.90			VOLTS
Maximum DC Reverse Current at Rated DC blocking voltage	I_R	0.5									uA
		10									
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	50									°C/W
Operating temperature range	T_J	-55 to +125									°C
Storage temperature range	T_{STG}	-55 to +150									°C

1- Thermal Resistance from Junction to Ambient at. 5.0 × 5.0mm² copper pad areas.

Kingtronics® International Company

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

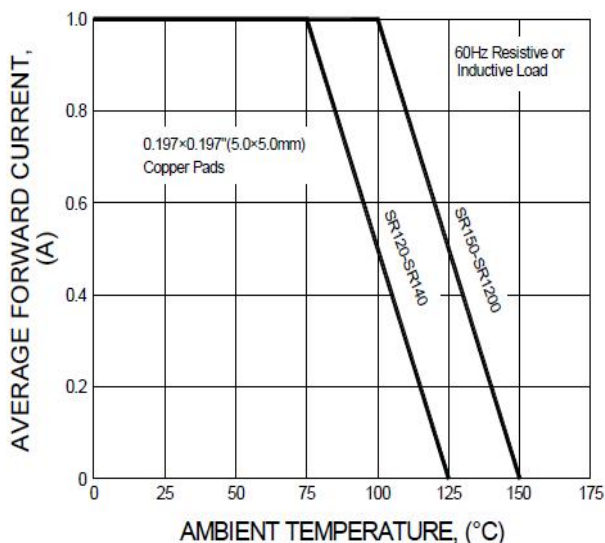


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

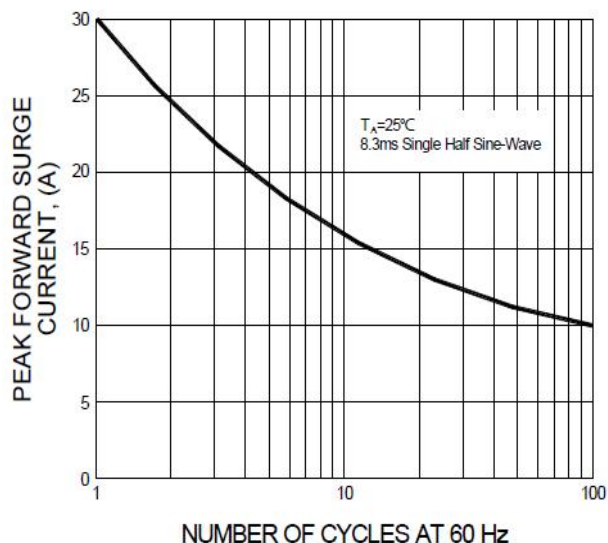


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

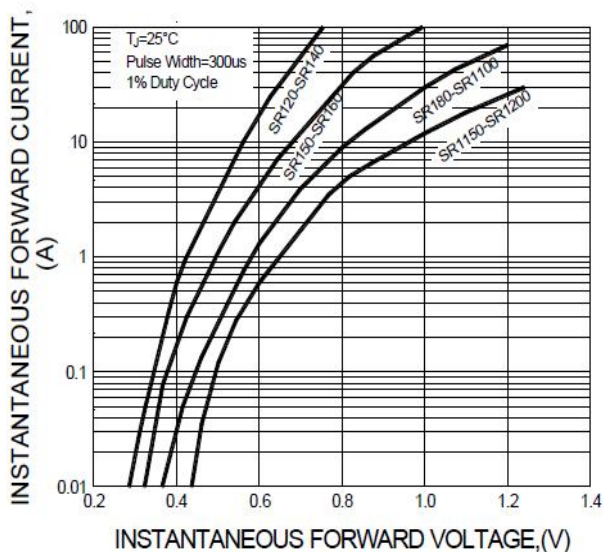
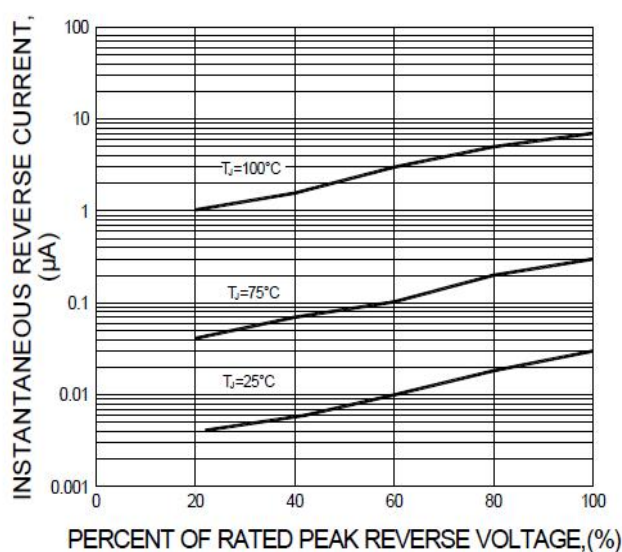


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice.

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