

Kingtronics®

SR220 THRU SR2100

SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE 20 to 100 Volts FORWARD CURRENT 2.0 Ampere

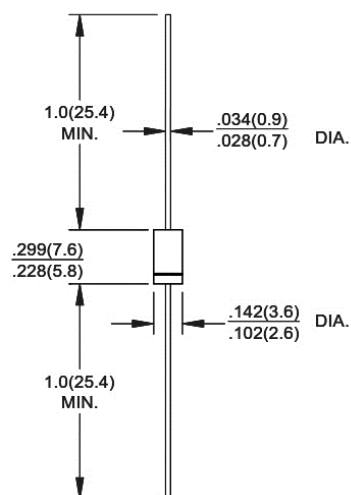
FEATURES

- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High reliability

MECHANICAL DATA

- Case: Mold plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Indicated by cathode band
- Lead: MIL-STD-202E, Method 208 guaranteed
- Mounting position: Any

DO-15



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%

Dimensions in inches and (millimeters)

PARAMETER	SYMBOL	SR220	SR230	SR240	SR250	SR260	SR280	SR 2100	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	$I_{(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							Amps
Maximum instantaneous forward voltage at 2.0A	V_F	0.55		0.70		0.85		VOLTS	
Maximum DC Reverse Current at Rated DC blocking voltage	$T_A = 25^\circ\text{C}$	1.0							mA
	$T_A = 100^\circ\text{C}$	20							
Typical Junction Capacitance (NOTE 1)	C_J	110							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	50							$^\circ\text{C/W}$
Operating temperature range	T_J	-55 to +125							$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150							$^\circ\text{C}$

1- Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

2-Thermal Resistance from Junction to Ambient at. 375" (9.5mm)lead length, P.C. board mounted.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

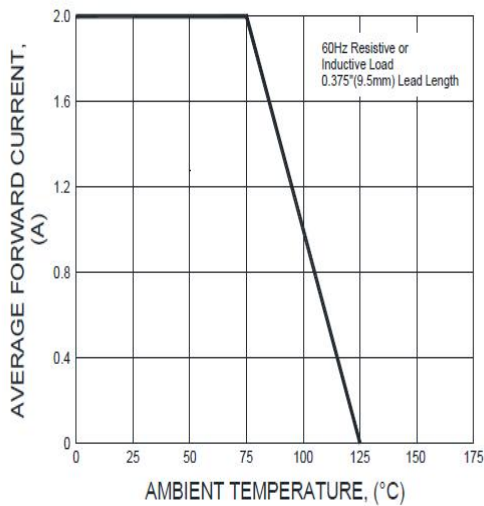


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

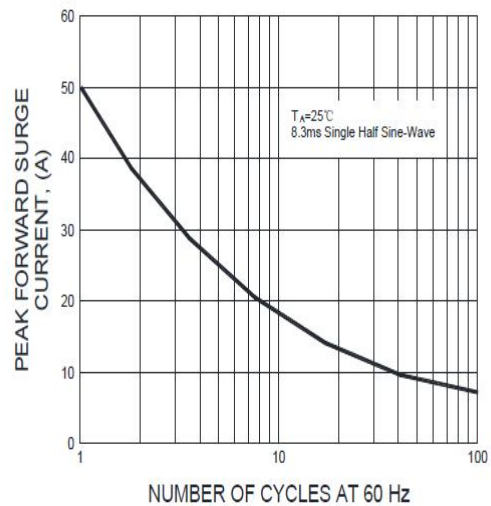


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

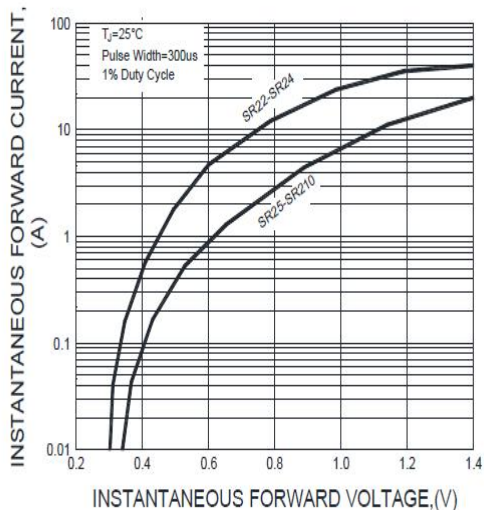
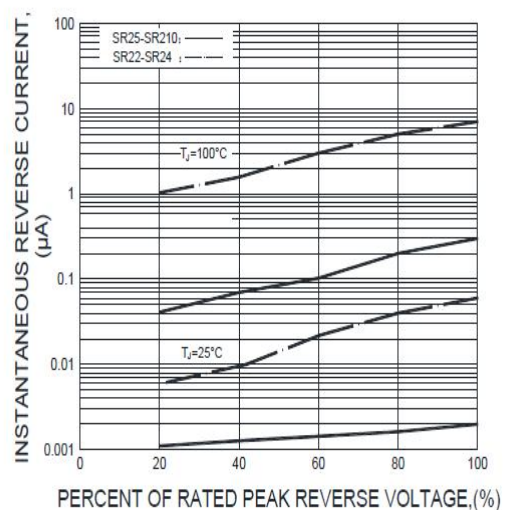


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice.

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