Kingtronics®

SR520 THRU SR5100

SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE 20 to 100 Volts **FORWARD CURRENT** 5.0 Ampere

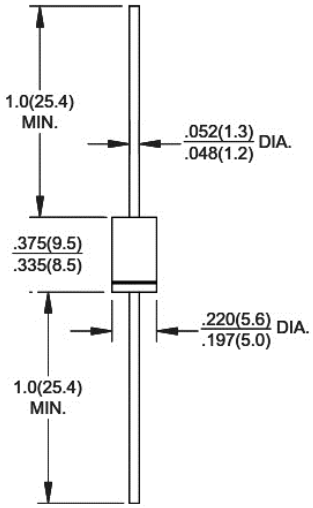
FEATURES

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

MECHANICAL DATA

Case: DO-27,Mold plastic
Epoxy: UL94V-0 rate flame retardant
Polarity: Indicated by cathode band
Lead:MIL-STD-202E, Method 208 guaranteed
Mounting position: Any

DO-201AD（DO-27）



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load derate current by 20%

PARAMETER		SYMBOL	SR 520	SR 530	SR 540	SR 550	SR 560	SR 580	SR 5100	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		$I_{(AV)}$	5.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	150							Amps
Maximum instantaneous forward voltage at 5.0A		V_F	0.55			0.70		0.85		VOLTS
Maximum DC Reverse Current at Rated DC blocking voltage	T_A = 25℃	I_R	0.5							mA
	T_A = 100℃		50							
Typical Junction Capacitance (NOTE 1)		C_J	500			400				pF
Typical Thermal Resistance (NOTE 2)		$R_{\theta JA}$	10							℃/W
Operating temperature range		T_J	-55 to +125							℃
Storage temperature range		T_{STG}	-55 to +150							℃

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

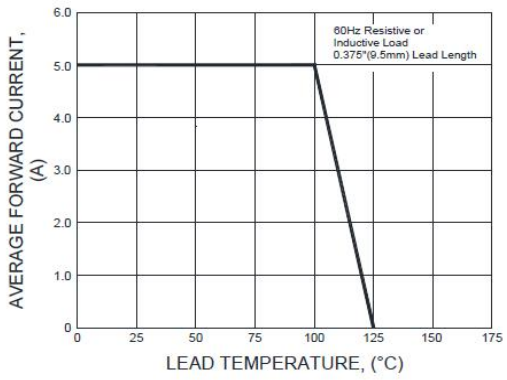


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

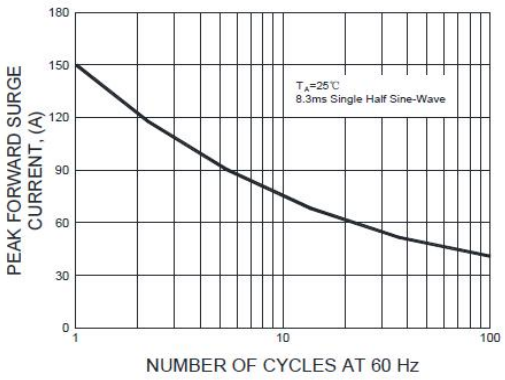


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

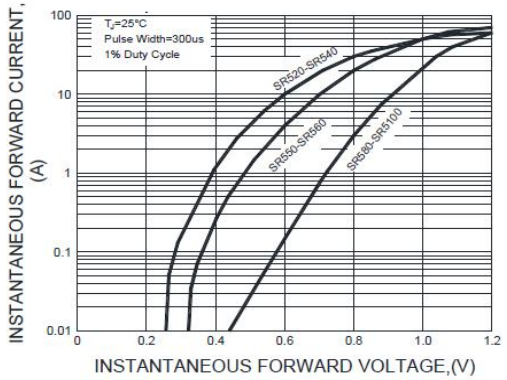


FIG.4-TYPICAL REVERSE CHARACTERISTICS

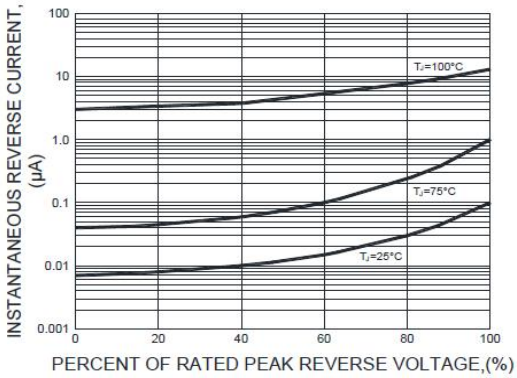
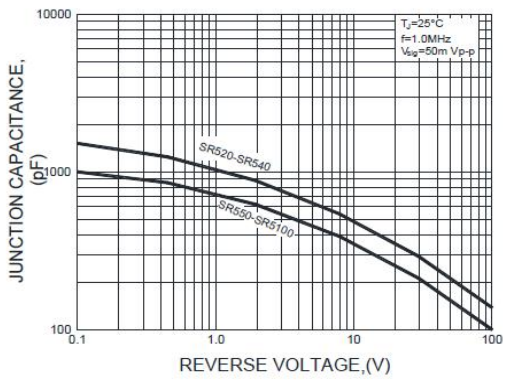


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice.