SR520 THRU SR5100

SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE 20 to 100 Volts FORWARD CURRENT 5.0 Ampere

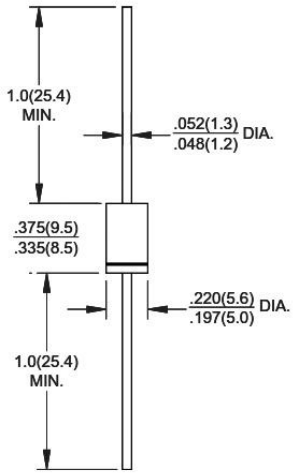
FEATURES

- ◆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

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

	SYMBOL	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	UNIT
Maximum Recurrent 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 T_A=25℃ at rated DC Blocking voltage T_A=100℃	I_R	0.5 50							mA
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							℃

Note: 2.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
3.Thermal Resistance From Junction to Ambient at. 375”(9.5mm)lead length, P.C. board mounted.

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RATING AND CHARACTERISTIC CURVES SR520 THRU SR5100

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

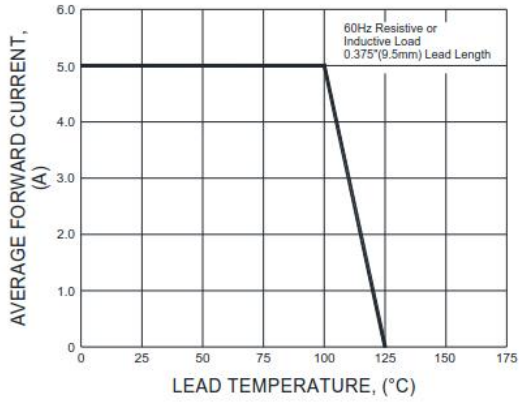


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

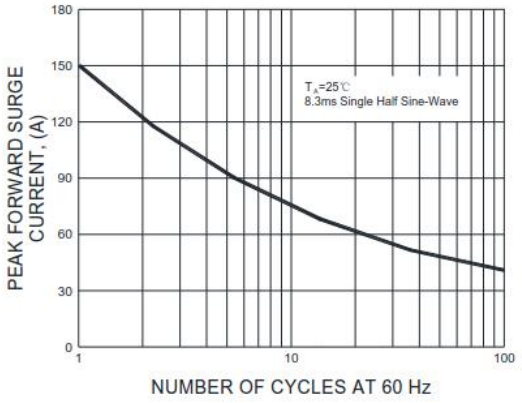


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

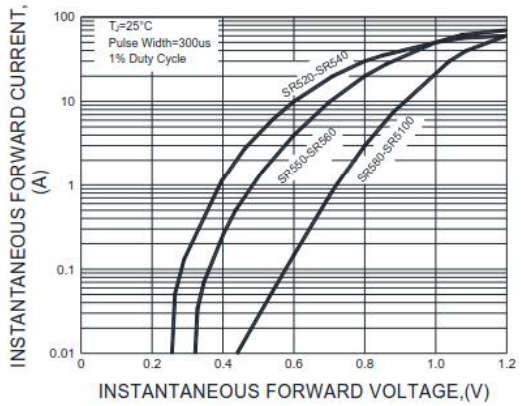


FIG.4-TYPICAL REVERSE CHARACTERISTICS

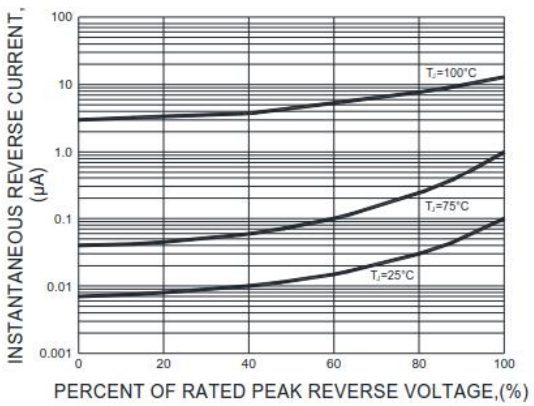
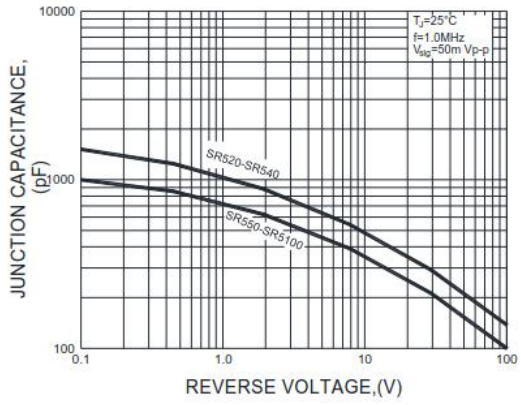


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.