SR320P THRU SR360P

3.0 AMP SCHOTTKY BARRIER RECTIFIERS

FMS

FEATURES

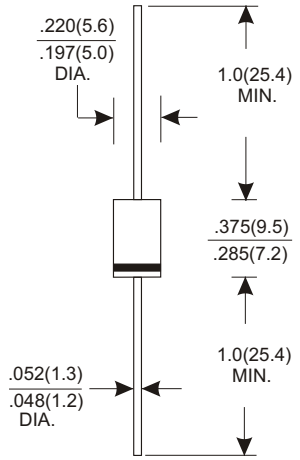
* Low forward voltage drop
* High current capability
* High reliability
* High surge current capability
* Epitaxial construction

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 1.10 grams

VOLTAGE RANGE
20 to 60 Volts
CURRENT
3.0 Amperes

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25˚C ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SR320P	SR340P	SR360P	UNITS
Maximum Recurrent Peak Reverse Voltage	20	40	60	V
Maximum RMS Voltage	14	28	42	V
Maximum DC Blocking Voltage	20	40	60	V
Maximum Average Forward Rectified Current See Fig. 1	3.0			A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	80			A
Maximum Instantaneous Forward Voltage at 3.0A	0.60		0.74	V
Maximum DC Reverse Current Ta=25˚C	2.0			mA
at Rated DC Blocking Voltage Ta=100˚C	20			mA
Typical Junction Capacitance (Note1)	180			pF
Typical Thermal Resistance R JA (Note 2)	35			˚C/W
Operating Temperature Range T_J	-40 — +125			˚C
Storage Temperature Range T_{STG}	-40 — +150			˚C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

RATING AND CHARACTERISTIC CURVES (SR320P THRU SR360P)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

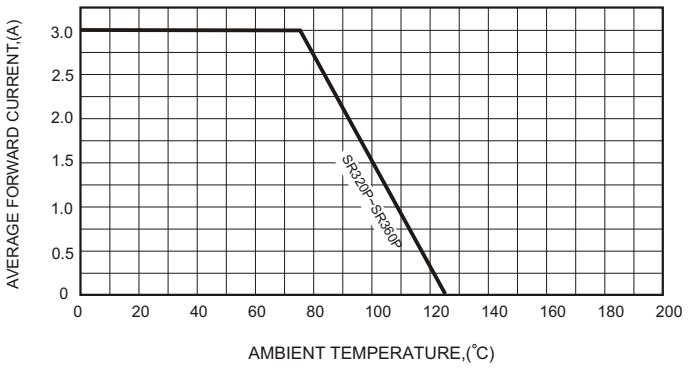


FIG.2-TYPICAL FORWARD CHARACTERISTICS

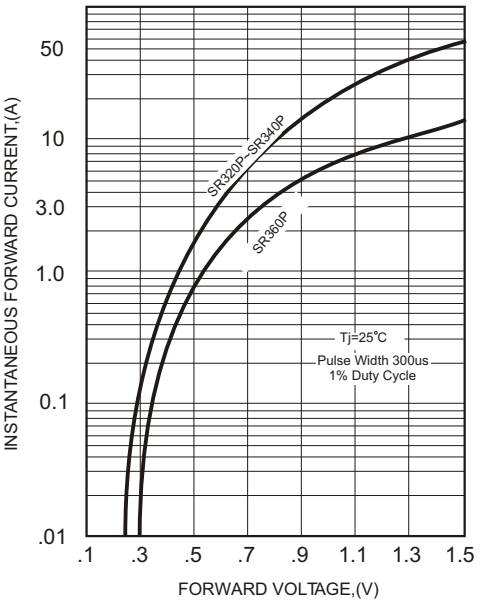


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

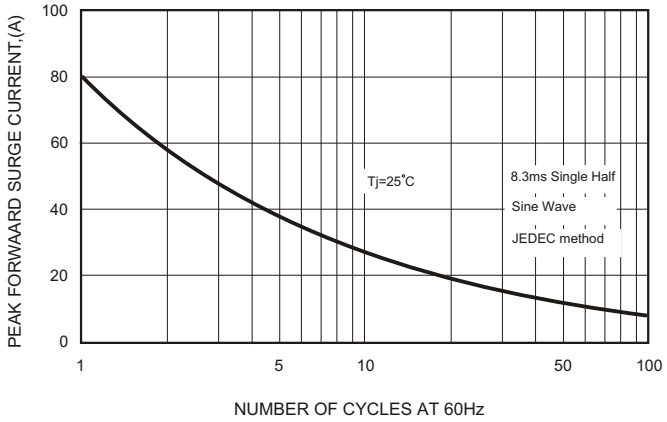


FIG.4-TYPICAL JUNCTION CAPACITANCE

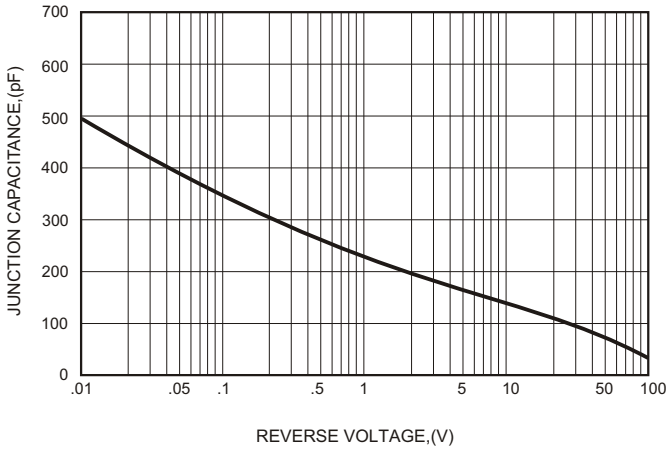


FIG.5 - TYPICAL REVERSE CHARACTERISTICS