WEITRON

SR320 thru SR3100

Axial Lead Schottky Rectifiers

Lead(Pb)-Free

REVERSE VOLTAGE
20 TO 100 VOLTS
FORWARD CURRENT
3.0 AMPERE

FEATURES:

* Axial lead type devices for through hole design
* Low power loss, high efficiency.
* High current capability, low forward voltage drop.
* High surge capability.
* Guardring for overvoltage protection.
* Ultra high-speed switching.
* Silicon epitaxial planar chip, metal silicon junction.
* Lead-free parts meet environmental standards of MIL-STD-19500 /228

DO-201AD

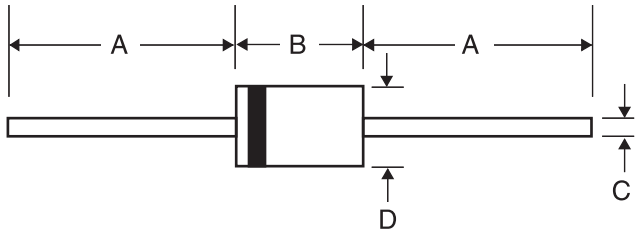
MECHANICAL DATA:

* 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

DO-201AD Outline Dimensions

Unit:mm

Axial Device (Through-Hole)



	A		B		C		D	
Dim	Min	Max	Min	Max	Min	Max	Min	Max
DO-201AD	25.40	-	7.30	9.50	1.20	1.30	4.80	5.60

Maximum Rating

Characteristic	Symbol	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
RMS Reverse Voltage	$VR_{(RMS)}$	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_R	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current See Fig.1	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80							A
Thermal Resistance	$R_{\theta JA}$	50							°C/W
Diode Junction Capacitance f=1MHz and applied 4V DC reverse voltage	C_J	300			250				pF
Operating Junction Temperature Range	T_J	-65 to +150							°C
Storage Junction Temperature Range	T_{STG}	-65 to +150							°C

Electrical Characteristic

Characteristic	Symbol	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	UNIT
Maximum Instanatneous Forward Voltage I_F=3.0A	V_F	0.55			0.70		0.85		V
Maximum Instantaneous Reverse Current Rated DC Blocking Voltage, T_A=25°C Rated DC Blocking, T_A=100°C	I_R	1.0 30							mA

RATINGAND CHARACTERISTIC CURVES

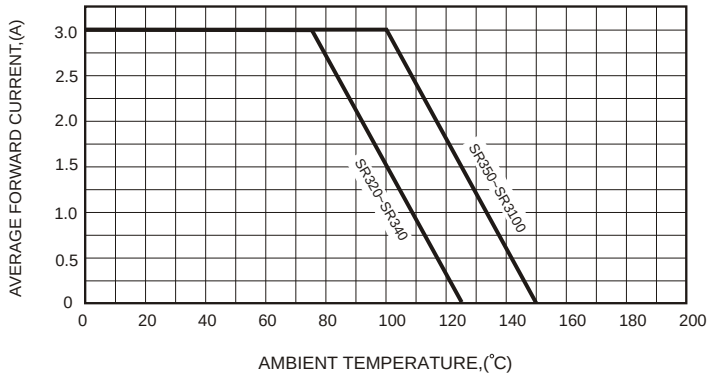


FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

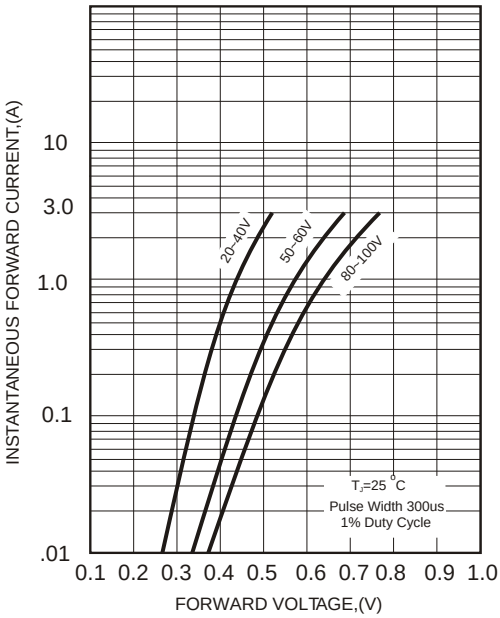


FIG.2-TYPICAL FORWARD CHARACTERISTICS

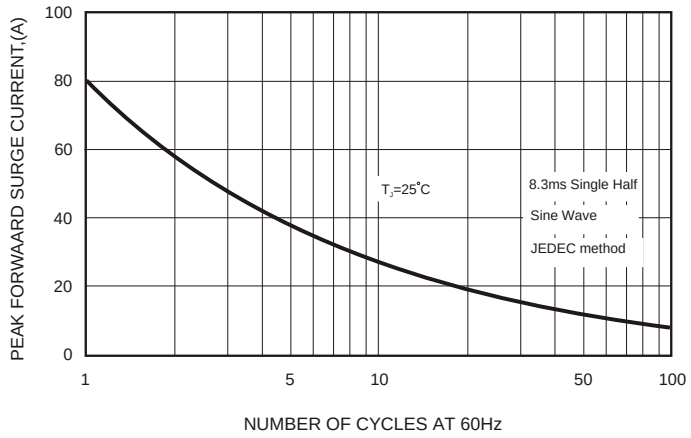


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

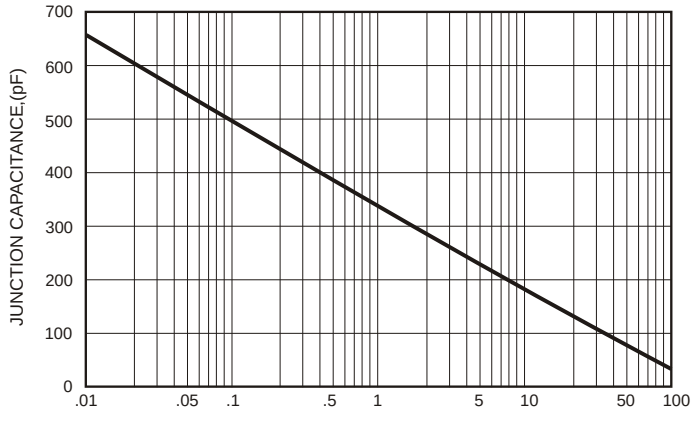


FIG.4-TYPICAL JUNCTION CAPACITANCE

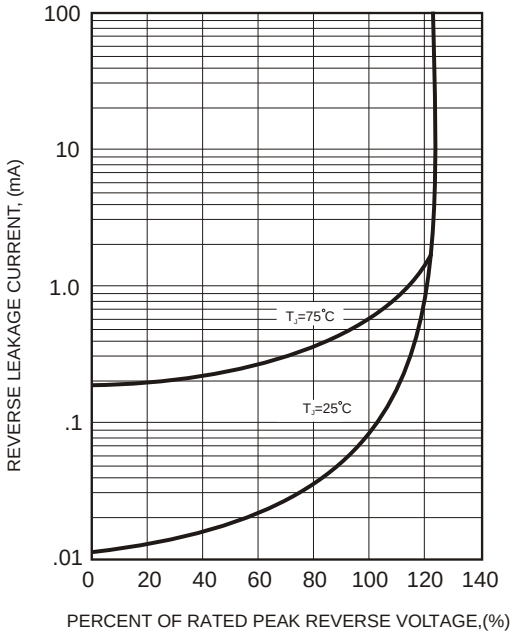


FIG.5 - TYPICAL REVERSE CHARACTERISTICS