SR320L-SR3200L

3.0 AMP. LOW VF Schottky Barrier Rectifiers

VOLTAGE RANGE:20-200V

CURRENT:3.0A

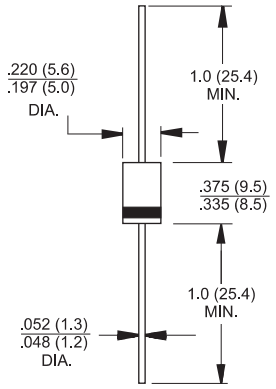
Fetures

- ◇ Plastic package has Underwriters Laboratory **Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound.**
- ◇ Guard ring for overvoltage protection
- ◇ **High current capability, low forward voltage drop**
- ◇ **Low power loss, high efficiency**
- ◇ **High surge capability**

Mechanicla Data

- ◇ **Case: Molded plastic DO-27/DO-201AD**
- ◇ **Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed**
- ◇ **Polarity: Color band dentes cathode end**
- ◇ **Mounting Position: Any**
- ◇ **Making: Type Number**
- ◇ **Lead Free: For RoHS/Lead Free Version**

DO-201AD/DO-27



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60HZ,resistive or inductive load.For capacitive load,derate by 20%.

Type Numger	Symbol	SR3 20L	SR3 40L	SR3 50L	SR3 60L	SR3 80L	SR3 100L	SR3 150L	SR3 200L	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	50	60	80	100	150	200	V
Maxium RMS Voltage	V_{RMS}	14	28	35	42	56	70	105	140	V
Maxium DC Blocking Voltage	V_{DC}	20	40	50	60	80	100	150	200	V
Average Rectified Output Current (Note 1) @T_L=100℃	$IF_{(AV)}$	3.0								A
Peak forward surge current:8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80								A
I2t Rating for Fusing (t < 8.3ms)	I2t	81.34								A2S
Forward Voltage @IF=3.0A	V_{FM}	0.42	0.45	0.5		0.72		0.85		V
Peak Reverse Current @TA=25℃	I_R	0.2				0.1				Ma
At Rated DC Blocking Voltage @TA=100℃	I_R	10				5				Ma
Typical Junction Capacitance (Note 2)	C_J	500			350					pF
Typical Thermal Resistance Junction toAmbient(Note 1)	$R_{\theta JA}$	25								℃/W
Operating Temperature Range	T_J	-55 to +150								℃
Storage Temperature Range	T_{STG}	-55 to +150								℃

Note: 1.Leads maintained at ambient temperature at a distance of 9.5mm from the case.

2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

FIG. 1 - FORWARD CURRENT DERATING CURVE

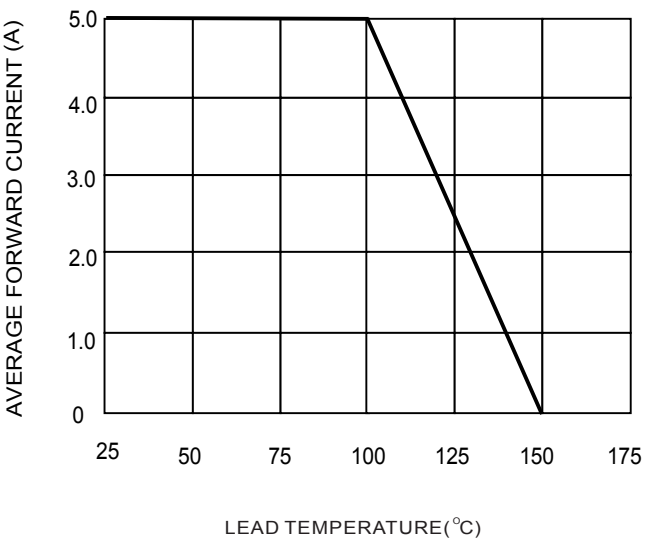


FIG.2-TYPICAL FORWARD CHARACTERISTICS

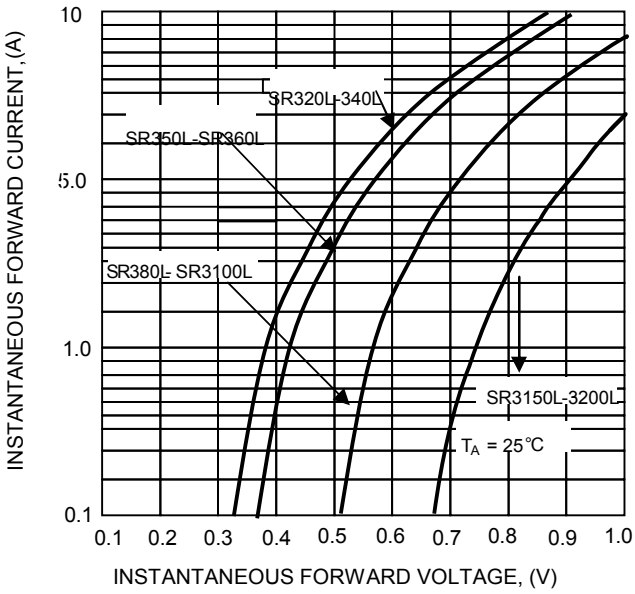


FIG. 3 MAXIMUM NON-REPETITIVE SURGE CURRENT

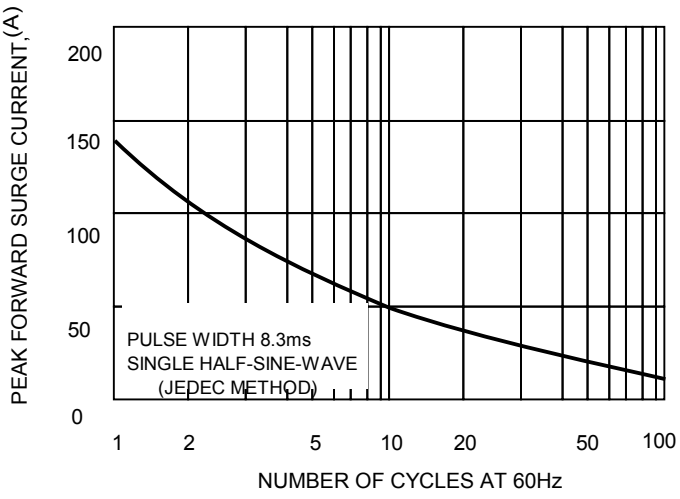


FIG.4TYPICALREVERSE CHRACTERISTIC