

# Lagertyp SB340



## FEATURES

- Low cost
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing General Instrument Proprietary 4B Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-STD-19500/228
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low  $V_F$
- High surge capacity
- Epitaxial construction
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.

## MECHANICAL DATA

Case: DO201AD Molded Plastic  
Terminals: Axial leads, solderable per MIL-STD-202, Method 208

Polarity: Band denotes cathode

Mounting Position: Any

Weight: 0.04 ounces, 1.12 grams

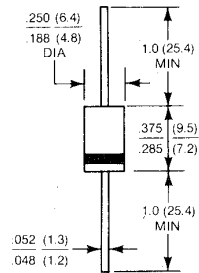
## VOLTAGE RANGE

20 to 60 Volts

## CURRENT

3.0 Amperes

## DO-201-AD



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%.

	SB320	SB330	SB340	SB350	SB360	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	V
Maximum RMS Voltage	14	21	28	35	42	V
Maximum DC Blocking Voltage	20	30	40	50	60	V
Maximum Average Forward Rectified Current .375", 9.5mm Lead Length See Fig. 1				3.0		A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)				150		A
Maximum Forward Voltage at 3.0 A		.50		.75		V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$				3.0 30		mA mA
Typical Thermal Resistance $R_{\theta JA}$ (Note 1)				35		$^\circ\text{C/W}$
Typical Junction Capacitance (Note 2)				190		pF
Operating Temperature Range $T_J$		-65 to +125		-65 to +150		$^\circ\text{C}$
Storage Temperature Range $T_A$				-65 to +150		$^\circ\text{C}$

NOTES: 1 — Thermal Resistance Junction to Ambient Vertical PC Board Mounting, 0.5" Lead Length  
2 — Measured at 1 MHz and applied reverse voltage of 4.0 volts

## RATING CHARACTERISTIC CURVES

Fig. 1 — FORWARD CURRENT DERATING CURVE

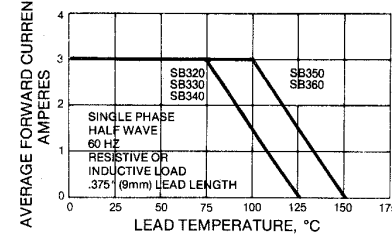


Fig. 2 — TYPICAL REVERSE CHARACTERISTICS

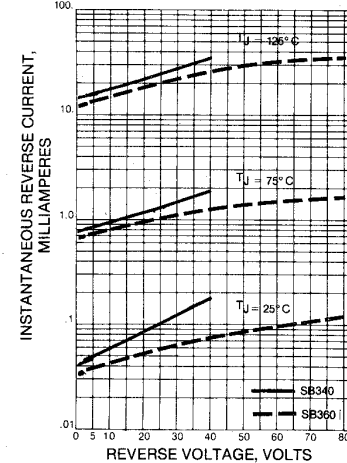


Fig. 3 — MAXIMUM NON-REPETITIVE SURGE CURRENT

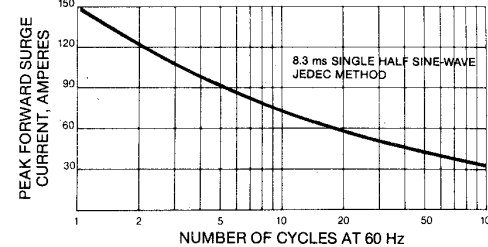


Fig. 4 — TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

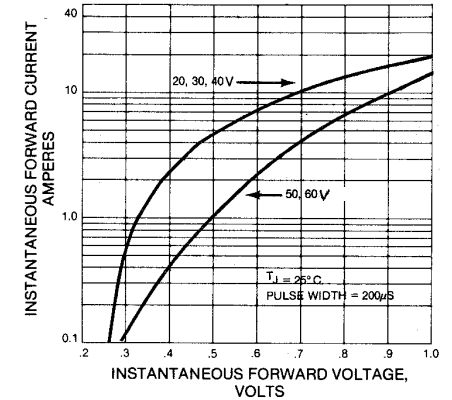


Fig. 5 — TYPICAL JUNCTION CAPACITANCE

