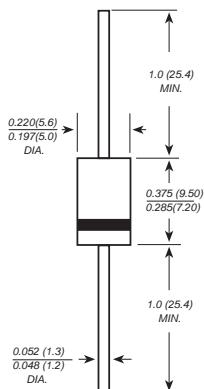


Reverse Voltage - 20 to 100 Volts Forward Current - 3.0 Amperes

DO-201AD



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.10 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

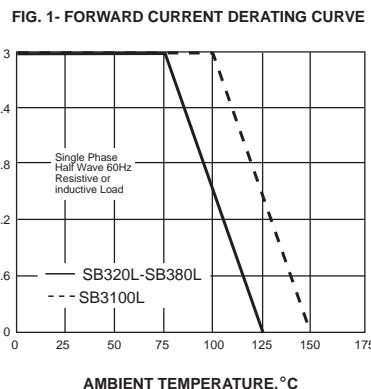
	SYMBOLS	SB320L	SB330L	SB340L	SB350L	SB360L	SB380L	SB3100L	UNITS		
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	V		
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	V		
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	V		
Maximum average forward rectified current 0.375" (9.5mm) lead length(see fig.1)	I _(AV)	3.0						A			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	80.0						A			
Maximum instantaneous forward voltage at 3.0A	V _F	0.45		0.50		0.70		V			
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I _R	0.5		20.0		10.0		mA			
Typical junction capacitance (NOTE 1)	C _J	250		160		pF					
Typical thermal resistance (NOTE 2)	R _{θJA}	40.0				°C/W					
Operating junction temperature range	T _J	-55 to +125				-55 to +150					
Storage temperature range	T _{STG}	-55 to +150						°C			

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

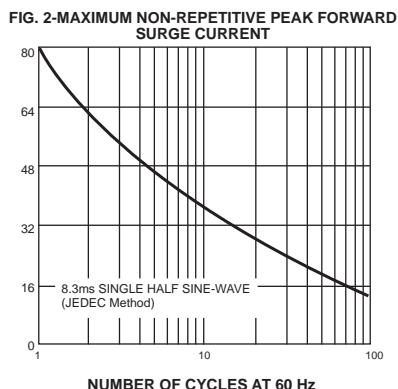
2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES SB320L THRU SB3100L

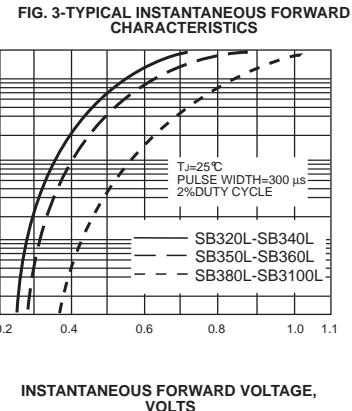
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



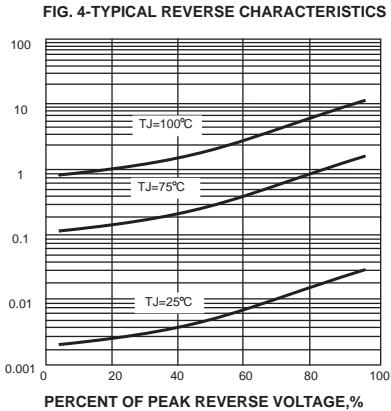
PEAK FORWARD SURGE CURRENT,
AMPERES



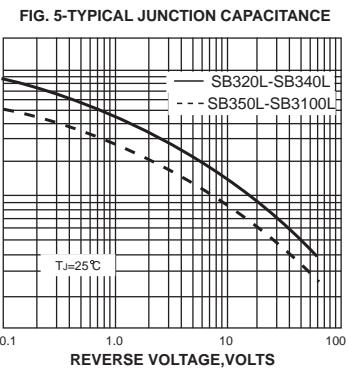
INSTANTANEOUS FORWARD
CURRENT, AMPS



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,
°C/W

