

SB520 THRU SB560

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 60 Volts

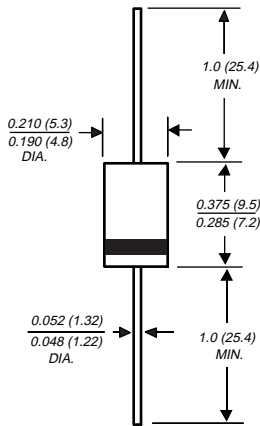
Forward Current - 5.0 Amperes

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ High current capability, low forward voltage drop
- ◆ High surge capability
- ◆ Guardring for overvoltage protection
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- ◆ High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3 kg) tension



DO-201AD



Dimensions in inches and (millimeters)

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, 1.12 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

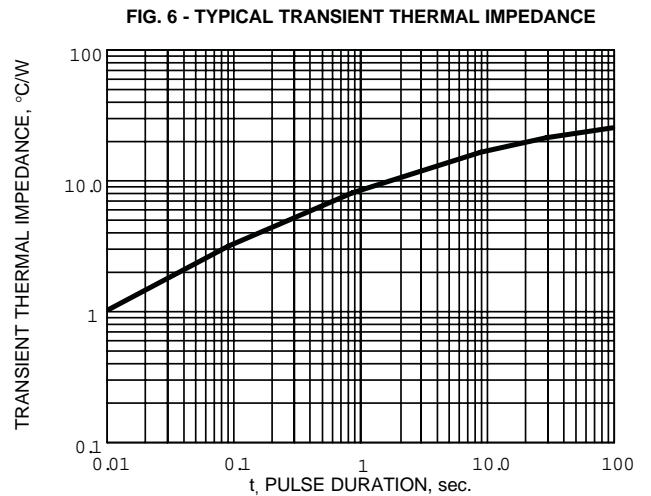
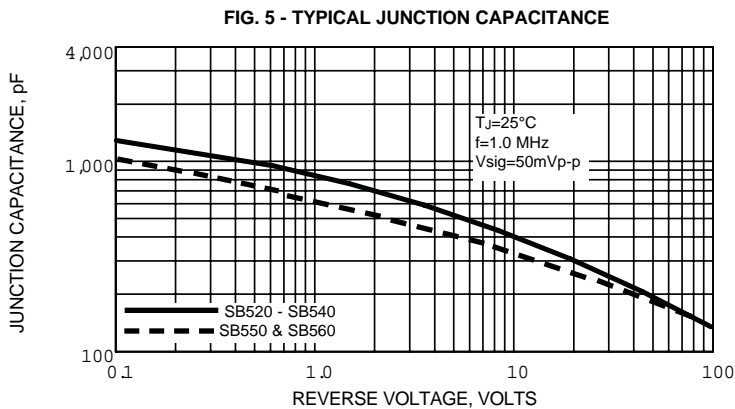
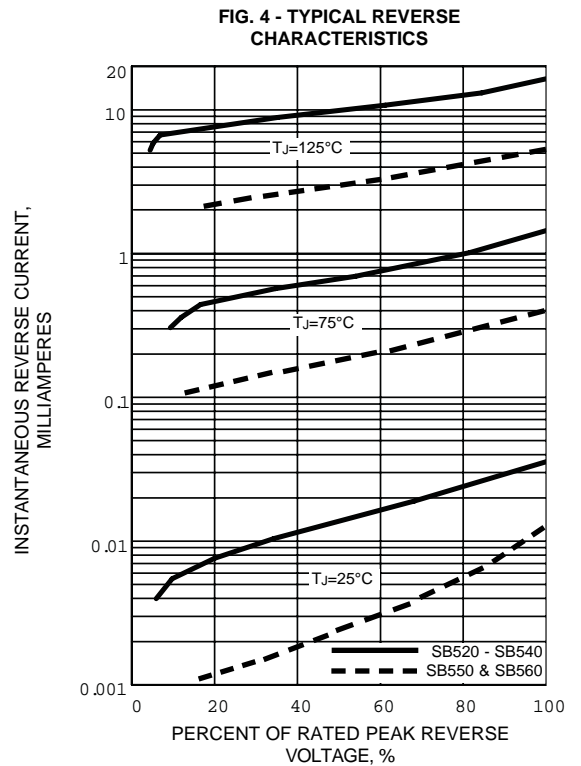
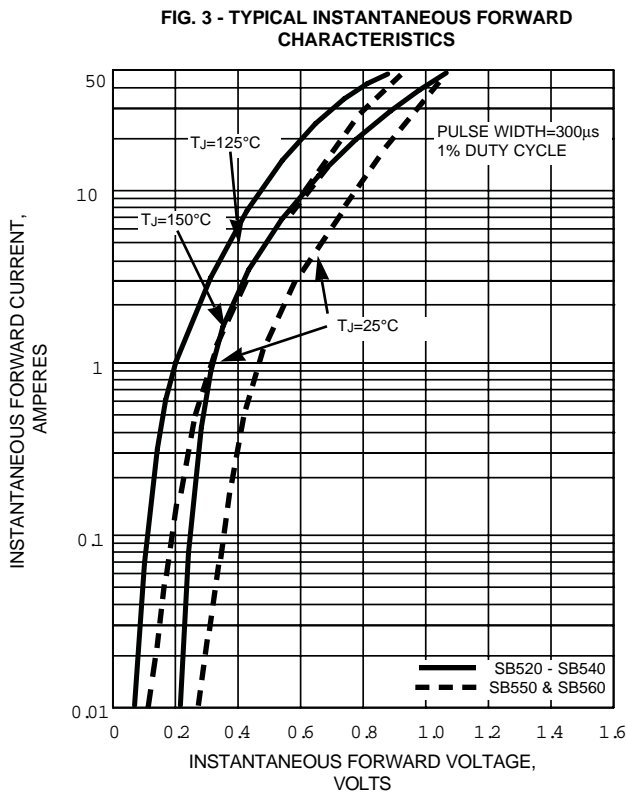
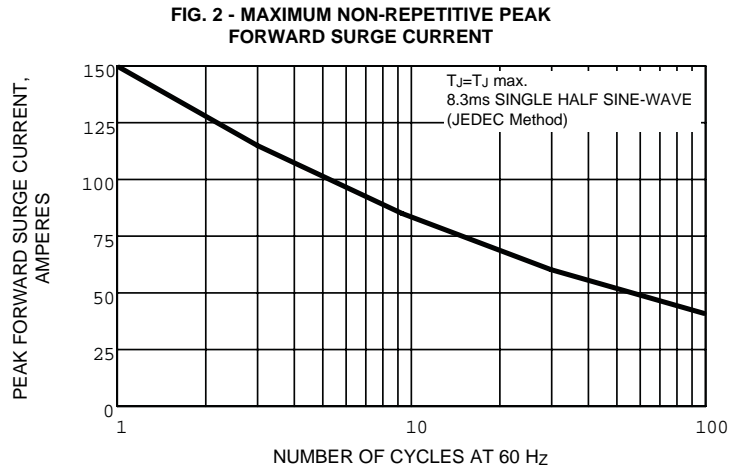
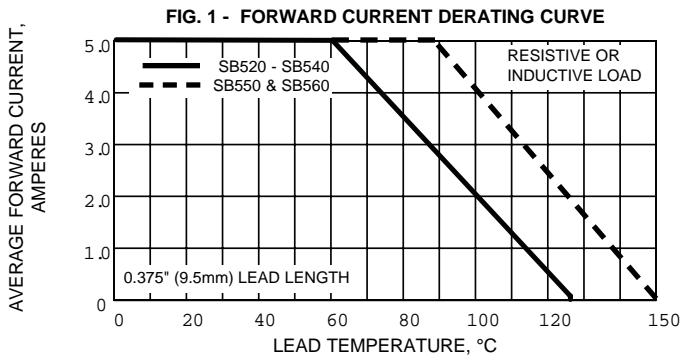
	SYMBOLS	SB520	SB530	SB540	SB550	SB560	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length (SEE FIG.1)	$I_{(AV)}$	5.0					Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at rated T_L	I_{FSM}	150.0					Amps
Maximum instantaneous forward voltage at 5.0A (NOTE 1)	V_F	0.55		0.67		Volts	
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1)	I_R	0.5					mA
$T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$		50.0		25.0			
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$ $R_{\theta JL}$	25.0 8.0					$^\circ\text{C/W}$
Operating junction temperature range	T_J	-65 to +125			-65 to +150		$^\circ\text{C}$
Storage temperature range	T_{STG}	-65 to +150					$^\circ\text{C}$

NOTES:

(1) Pulse test: 300µs pulse width, 1% duty cycle

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

RATINGS AND CHARACTERISTIC CURVES SB520 THRU SB560



This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.