

SB520 thru SB5100

1.Feature & Dimensions

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Low power loss,high efficiency
- * For use in low voltage high frequency inverters, free wheeling,and polarity protection applications
- * Guarding for over voltage protection
- * High temperature soldering guaranteed: 260°C/10 seconds at terminals

2.Mechanical Data

Case: JEDEC DO-201AD, molded plastic over glass body

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

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 oz., 1.13 g

Handling precautin:None

3.Electrical Characteristic

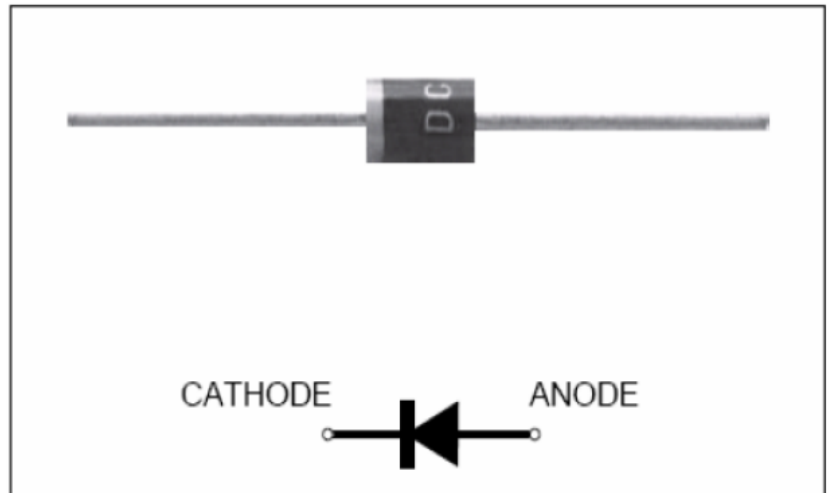
Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	SB520	SB530	SB540	SB550	SB560	SB580	SB5100	Unit
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)	$I_{F(AV)}$	5.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150							A
Operating junction and storage temperature range	T_J, T_{STG}	-40 to +125							°C

Schottky Barrier Rectifiers

Reverse Voltage 20 to 100V

Forward Current 5.0A



We declare that the material of product compliance with RoHS requirements.

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter Symbol	symbol	SB520	SB530	SB540	SB550	SB560	SB580	SB5100	Unit	
Maximum instantaneous forward voltage at 5.0A	V_F	0.50			0.70	0.84			V	
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 100^\circ\text{C}$	I_R	0.5				20				mA
Typical thermal resistance (Note 2)	$R_{\theta JA}$	25								°C/W
Typical junction capacitance at 4.0V, 1MHz	C_J	500			380				PF	

NOTES:

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

4. Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

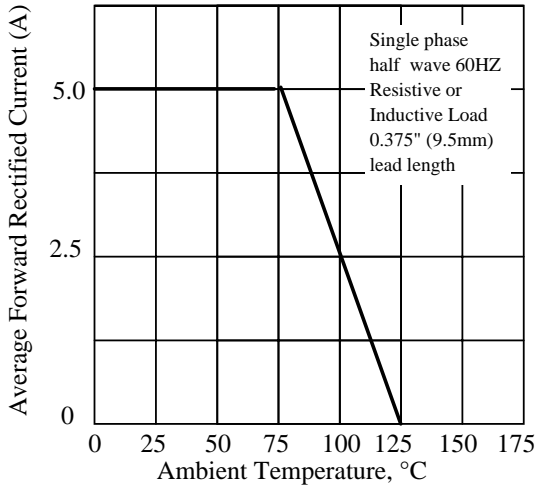


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

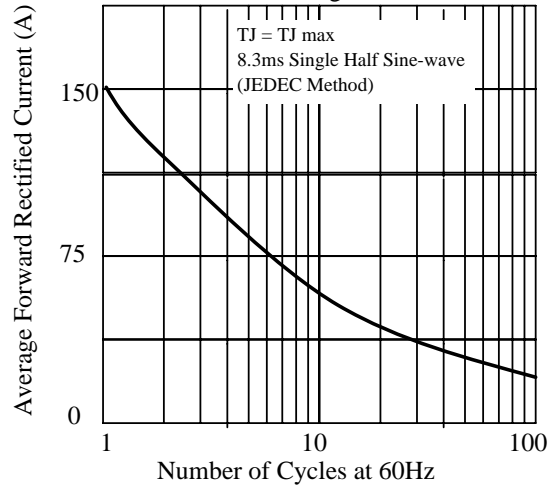


Fig 3. - Typical Instantaneous Forward Characteristics

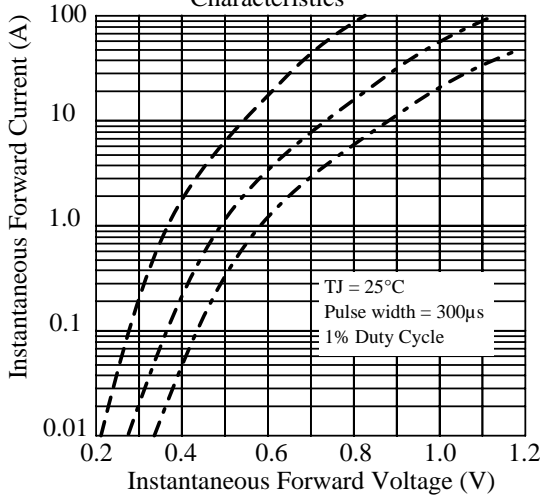


Fig 4. - Typical Reverse Characteristics

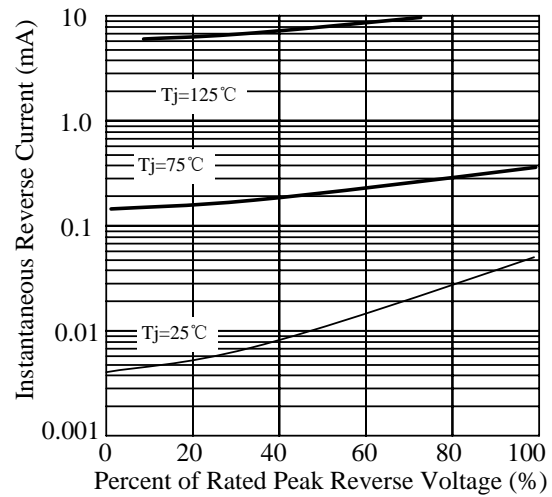


Fig 5. - typical transient thermal impedance

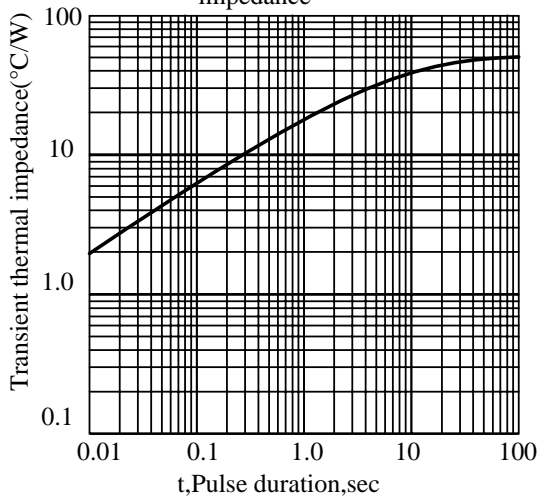
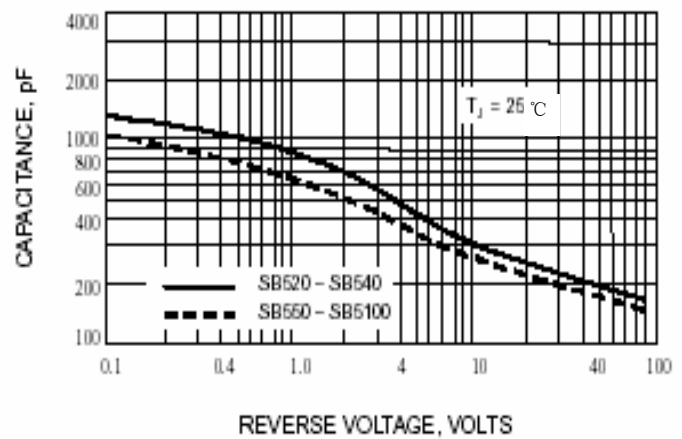
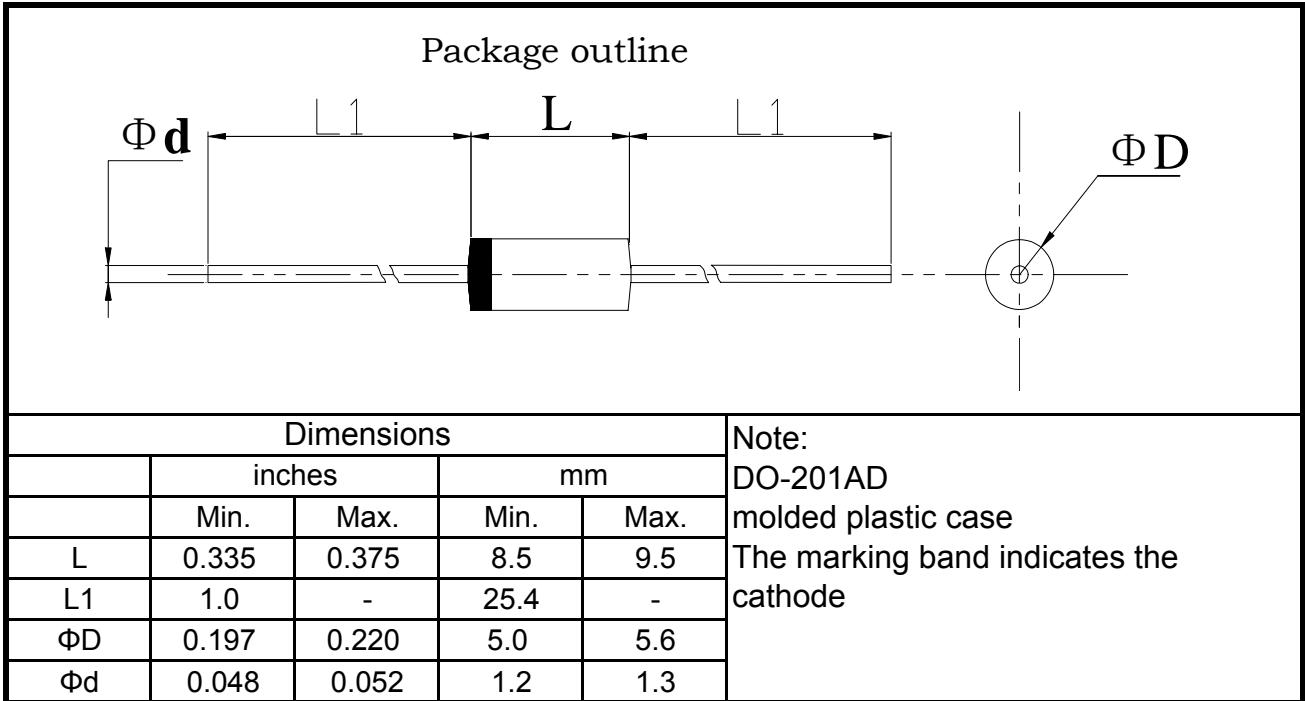


Fig 6. - Typical Junction Capacitance



5.Package Dimensions in inches and (millimeters)



单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)