

SB3150&SB3200

Schottky Barrier Rectifiers

Reverse Voltage 150V&200V Forward Current 3.0A

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

Mechanical Data

Case: JEDEC DO-201AD, molded plastic
over sky die

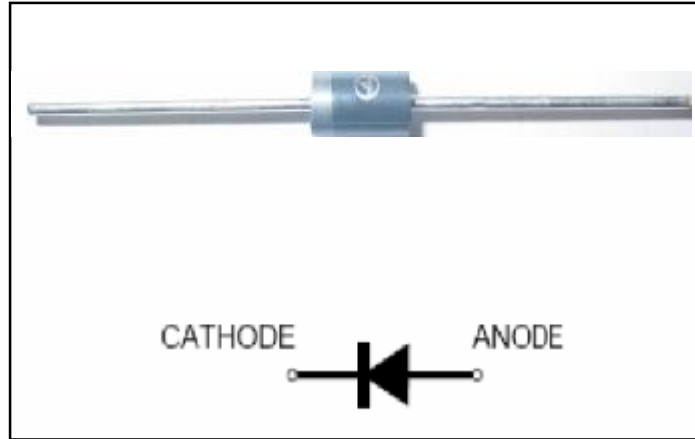
Terminals: Plated axial leads, solderable per
MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.038 oz., 1.03 g

Handling precautin:None



We declare that the material of product compliance
with ROHS requirements

1.Electrical Characteristic

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

Parameter Symbol	symbol	SB3150	SB3200	Unit
device marking code		SB3150	SB3200	
Maximum repetitive peak reverse voltage	V_{RRM}	150	200	V
Maximum RMS voltage	V_{RMS}	105	140	V
Maximum DC blocking voltage	V_{DC}	150	200	V
Maximum average forward rectified current 0.375" (9.5mm) lead length (See fig. 1)	$I_F(AV)$	3.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80		A
thermal resistance, junction to ambient	$R_{\theta JA}$	40		°C/W
thermal resistance, junction to case	$R_{\theta JC}$	5		°C/W
Operating junction and storage temperature range	T_J, T_{STG}	-40 to +150		°C

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

Parameter Symbol	symbol	SB3150	SB3200	Unit
Maximum instantaneous forward voltage at 3.0A	V_F	0.87		V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 100^\circ\text{C}$	I_R	1 5		mA
Typical junction capacitance at 4.0V, 1MHz	C_J	250		PF

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

Fig. 1 - Forward Current Derating Curve

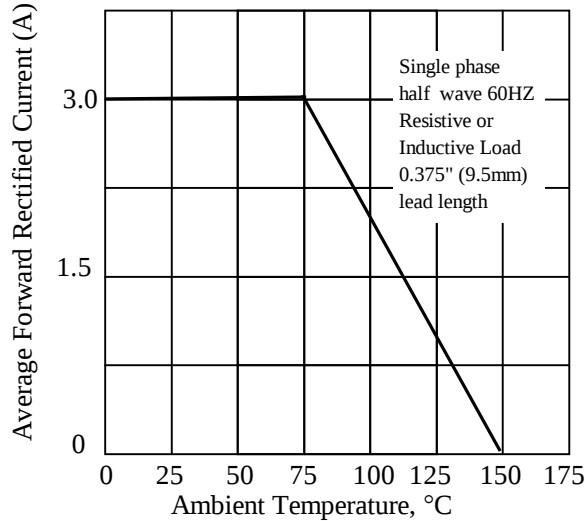


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

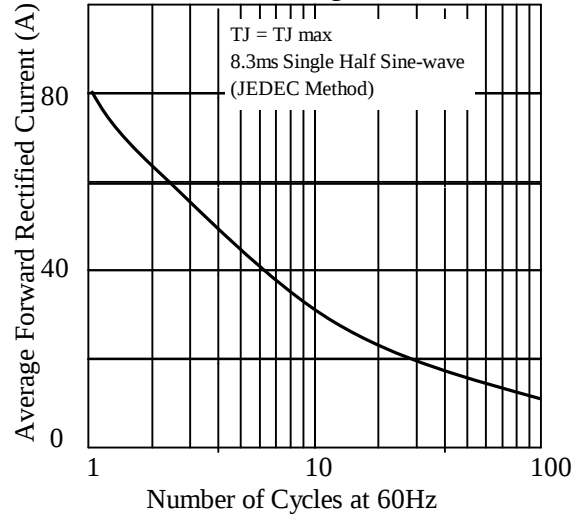


Fig 3. - Typical Instantaneous Forward Characteristics

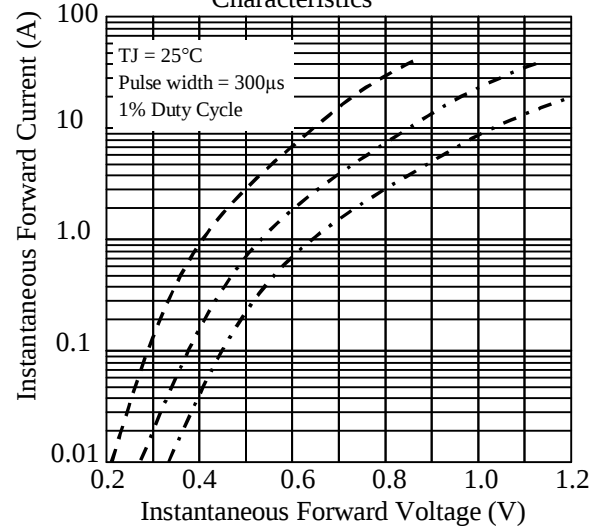


Fig 4. - Typical Reverse Characteristics

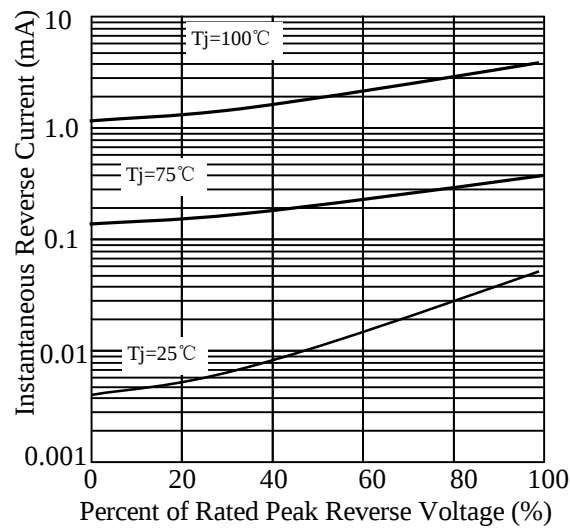


Fig 5. - typical transient thermal impedance

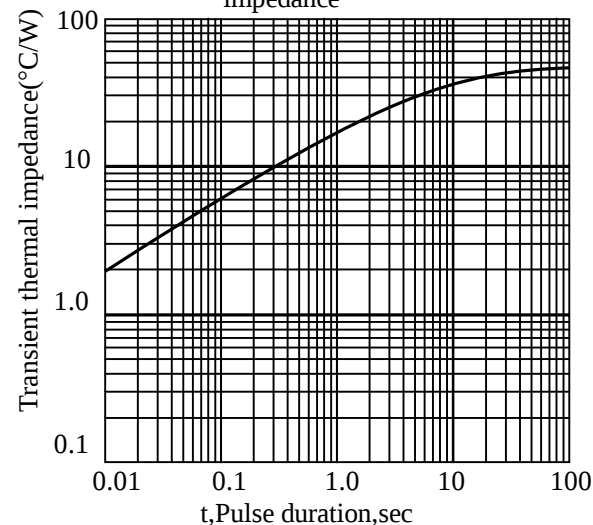
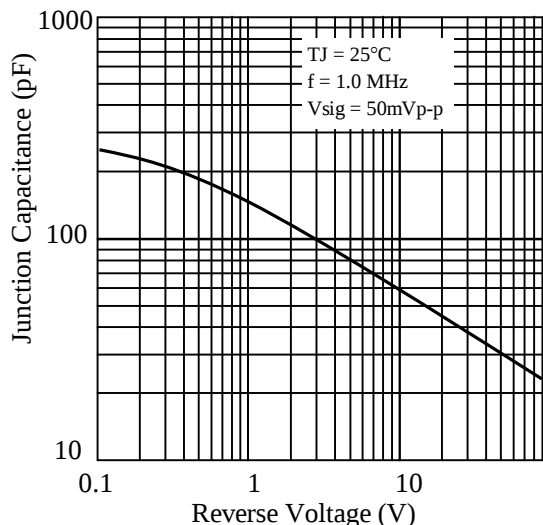
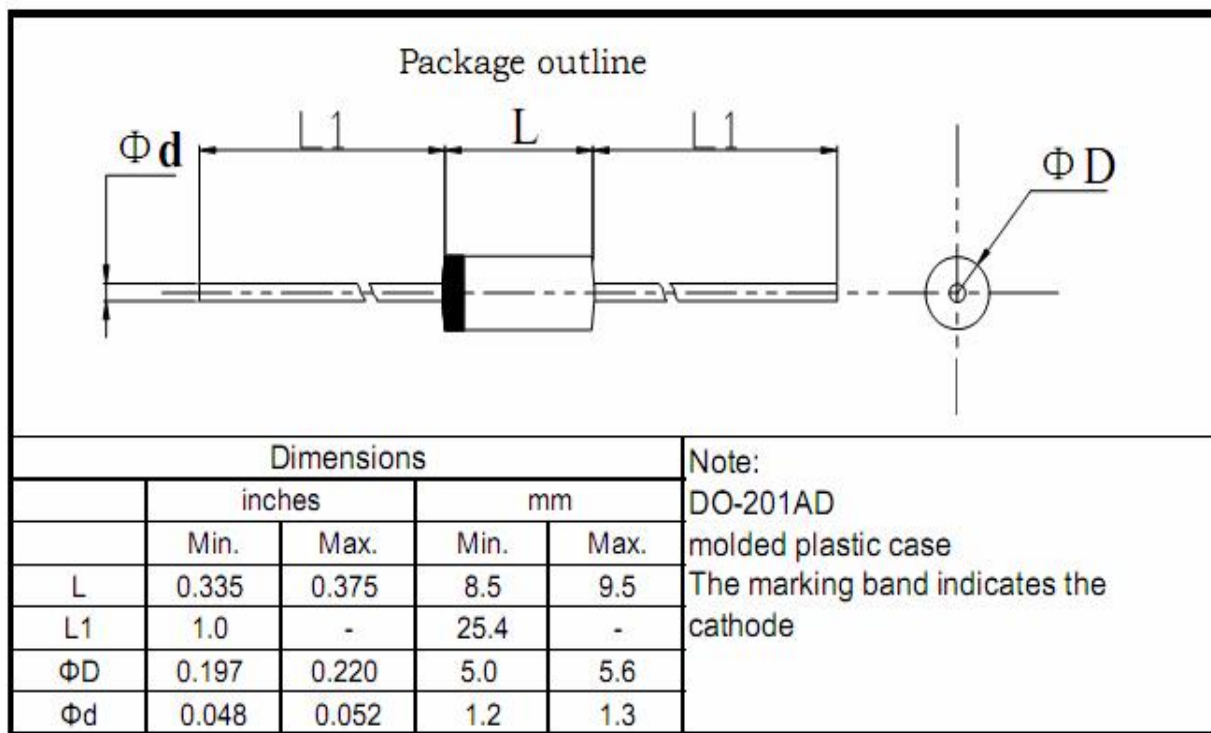


Fig 6. - Typical Junction Capacitance



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3. dimension:





LESHAN RADIO COMPANY, LTD.

SB3150&SB3200

4. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	周杰	2010-6-11