

SB2150&SB2200

Schottky Barrier Rectifiers

Reverse Voltage 150V&200V Forward Current 2.0A

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-15, molded plastic over sky die

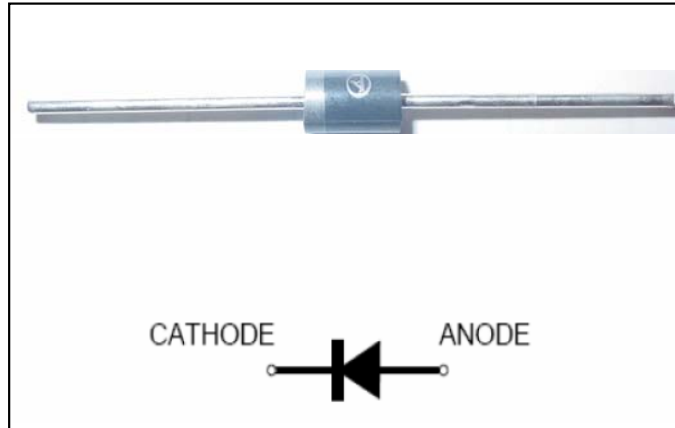
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position Any

Weight: 0.015 oz.,0.40g

Handling precautinNone



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	SB2150	SB2200	Unit
device marking code		SB2150	SB2200	
Maximum repetitive peak reverse voltage	V_{RRM}	150	200	V
Maximum RSM voltage	V_{RSM}	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)	$I_F(AV)$	2.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60		A
thermal resistance, junction to ambient	$R_{\theta JA}$	50		°C/W
thermal resistance, junction to case	$R_{\theta JC}$	5		°C/W
Operating temperature range	T_J	-55 to +150		°C
storage temperature range	T_{STG}	-55 to +150		°C

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

Parameter Symbol	symbol	SB2150	SB2200	Unit
Maximum instantaneous forward voltage at 2.0A	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	0.1 5		mA
Typical junction capacitance at 4.0V, 1MHz	C_J	60		PF

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

Fig. 1 - Forward Current Derating Curve

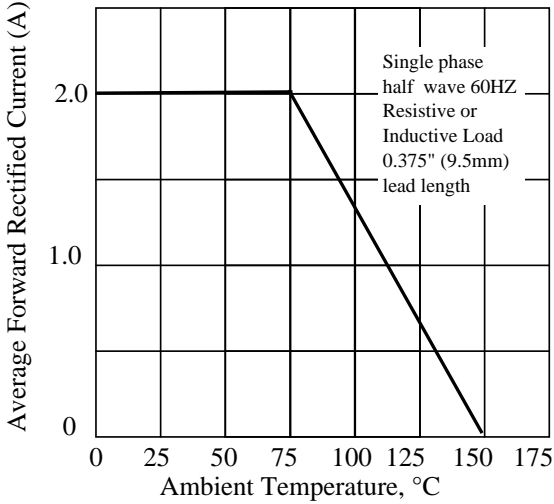


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

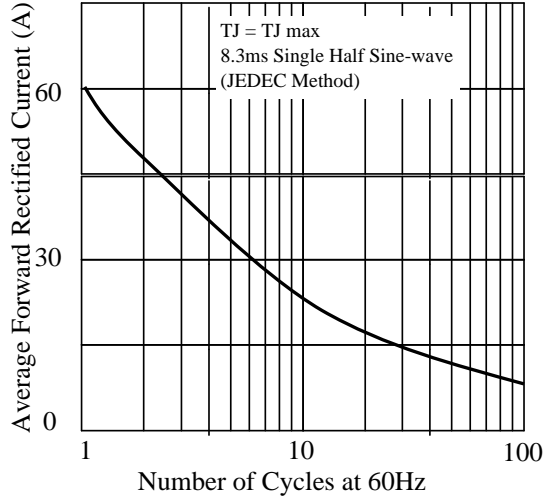


Fig 3. - Typical Instantaneous Forward Characteristics

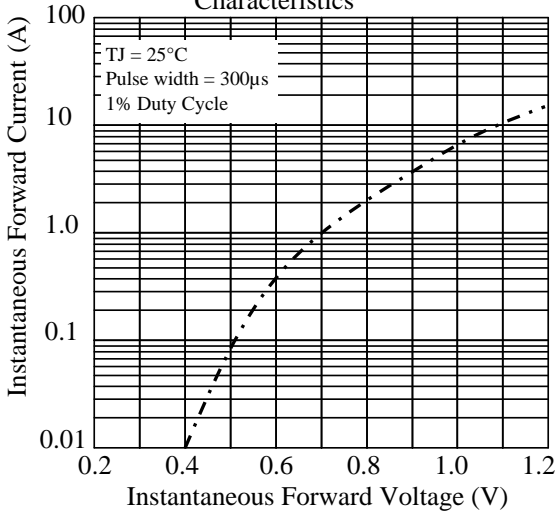


Fig 4. - Typical Reverse Characteristics

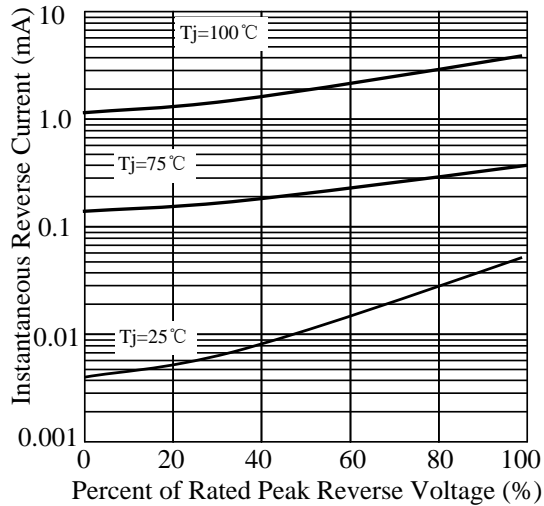


Fig 5. - typical transient thermal impedance

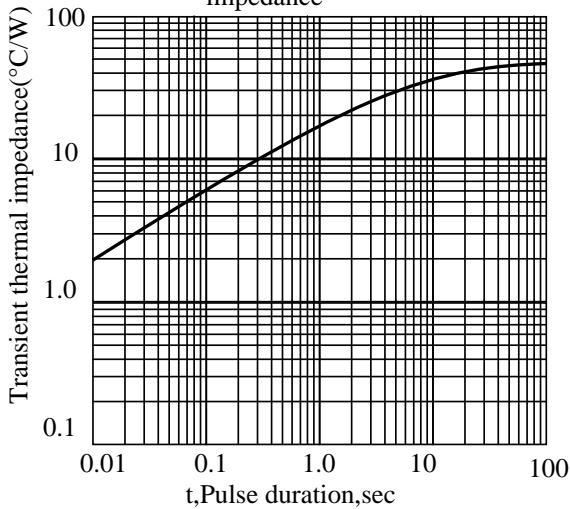
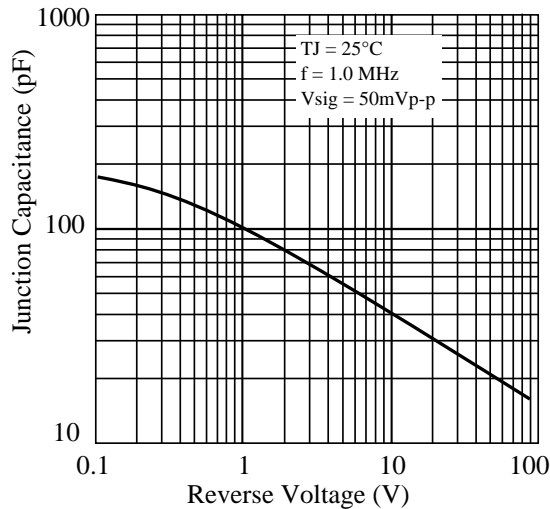
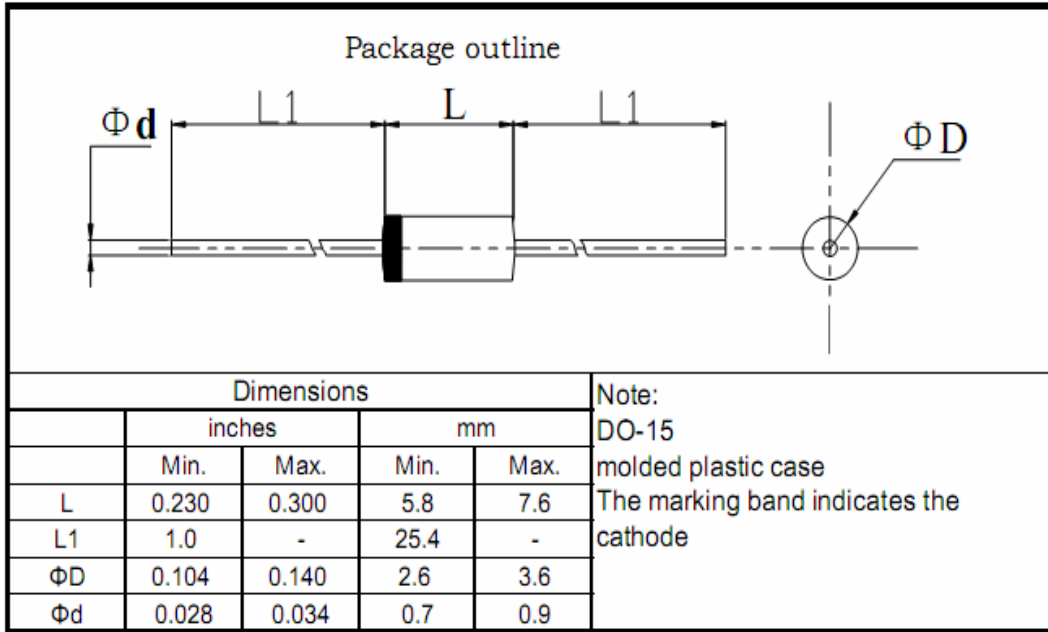


Fig 6. - Typical Junction Capacitance



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3. dimension:



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4. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	周杰	2011-7-18
2	修正外形和电流	周杰	2013-3-27

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