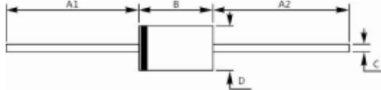




<p>SCHOTTKY BARRIER RECTIFIERS</p>	<p>REVERSE VOLTAGE - 150 Volts FORWARD CURRENT - 5.0 Ampere</p>																		
<p>FEATURES</p> <ul style="list-style-type: none"> • Metal-Semiconductor junction with guard ring • Epitaxial construction • Low forward voltage drop • High current capability • The plastic material carries UL recognition 94V-0 • For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case : JEDEC DO-201AD molded plastic • Polarity : Color band denotes cathode • Weight : 0.04 ounces, 1.1 grams • Mounting position : Any 	<p>DO-201AD</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Dim.</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A1</td> <td>25.4</td> <td>-----</td> </tr> <tr> <td>A2</td> <td>25.40</td> <td>-----</td> </tr> <tr> <td>B</td> <td>7.20</td> <td>9.50</td> </tr> <tr> <td>C</td> <td>1.20</td> <td>1.30</td> </tr> <tr> <td>D</td> <td>4.80</td> <td>5.30</td> </tr> </tbody> </table> <p style="font-size: small;">All Dimensions in millimeter</p>	Dim.	Min.	Max.	A1	25.4	-----	A2	25.40	-----	B	7.20	9.50	C	1.20	1.30	D	4.80	5.30
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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, derate current by 20%

CHARACTERISTICS	SYMBOL	SB5150	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	150	V
Maximum RMS Voltage	V_{RMS}	105	V
Maximum DC Blocking Voltage	V_{DC}	150	V
Maximum Average Forward Rectified Current @ $T_J=150^{\circ}C$	$I_{(AV)}$	5.0	A
Peak Forward Surge current 8.3ms single half sine-wave super imposed on rated load @ $T_J=25^{\circ}C$	I_{FSM}	125	A
Maximum forward Voltage at 5.0A DC	V_F	0.92	V
Maximum DC Reverse Current @ $T_J=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_J=100^{\circ}C$	I_R	0.008 50	mA
Typical Thermal Resistance (Note 1&2)	$R_{\theta JL}$	10	°C/W
	$R_{\theta JC}$	12	
Typical Junction Capacitance (Note 2)	C_J	150	pF
Operating Temperature Range	T_J	-55 to +175	°C
Storage Temperature Range	T_{STG}	-55 to +175	°C

NOTES : 1. Thermal Resistance Junction to Lead. REV.0, 01.-Oct-2013
 2. Thermal Resistance Junction to Case.
 3. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

RATING AND CHARACTERISTIC CURVES
SB5150

