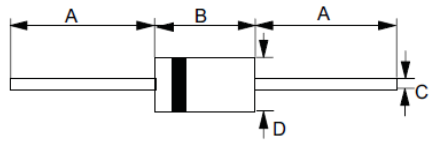


<b>SCHOTTKY BARRIER RECTIFIERS</b>	<b>REVERSE VOLTAGE 20 to 200 Volts FORWARD CURRENT 5 Amperes</b>																					
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Metal-Semiconductor junction with guard ring</li> <li>• Epitaxial construction</li> <li>• Low forward voltage drop</li> <li>• High current capability</li> <li>• The plastic material carries UL recognition 94V-0</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case: JEDEC DO-201AD molded plastic</li> <li>• Polarity: Color band denotes cathode</li> <li>• Weight: 1.071grams</li> </ul>	<p>DO-201AD</p>  <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <thead> <tr> <th colspan="3">DO-201AD</th> </tr> <tr> <th>Dim.</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>25.4</td> <td>-</td> </tr> <tr> <td>B</td> <td>8.50</td> <td>9.50</td> </tr> <tr> <td>C</td> <td>1.20 <math>\varnothing</math></td> <td>1.30 <math>\varnothing</math></td> </tr> <tr> <td>D</td> <td>5.0 <math>\varnothing</math></td> <td>5.60 <math>\varnothing</math></td> </tr> <tr> <td colspan="3" style="text-align: center;">Dimensions in millimeters</td> </tr> </tbody> </table>	DO-201AD			Dim.	Min.	Max.	A	25.4	-	B	8.50	9.50	C	1.20 $\varnothing$	1.30 $\varnothing$	D	5.0 $\varnothing$	5.60 $\varnothing$	Dimensions in millimeters		
DO-201AD																						
Dim.	Min.	Max.																				
A	25.4	-																				
B	8.50	9.50																				
C	1.20 $\varnothing$	1.30 $\varnothing$																				
D	5.0 $\varnothing$	5.60 $\varnothing$																				
Dimensions in millimeters																						
<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b>  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%</p>																						
<b>Characteristics</b>	Symbol	SB520 -HF	SB530 -HF	SB540 -HF	SB550 -HF	SB560 -HF	SB580 -HF	SB5100 -HF	SB5150 -HF	SB5200 -HF	Unit											
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	V											
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V											
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V											
Maximum Instantaneous Forward Voltage $I_F=5A$ @25°C	$V_F$	0.55		0.7		0.85		0.87	0.9	V												
$I_F=5A$ @100°C		0.5		0.65		0.75		0.77	0.8													
Maximum DC Reverse Current @TA=25°C	$I_R$	0.5					0.2				mA											
at Rated DC Blocking Voltage @TA=100°C		15					5															
Maximum Average Forward Rectified Current	$I_F$	5									A											
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	$I_{FSM}$	100									A											
Typical Junction Capacitance	$C_J$	250			200		150	140	110	pF												
Typical Thermal Resistance	$R_{\theta Ja}$ $R_{\theta Jc}$	50 12									°C/W											
Operating Temperature Range	$T_J$	-55 to +125									°C											
Storage Temperature Range	$T_{STG}$	-55 to +150									°C											

## Rating and Characteristic Curves

