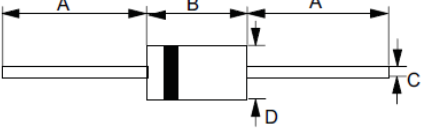


SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE 20 to 200 Volts FORWARD CURRENT 5 Amperes																					
<p>FEATURES</p> <ul style="list-style-type: none"> • Metal-Semiconductor junction with guard ring • Epitaxial construction • Low forward voltage drop • High current capability • The plastic material carries UL recognition 94V-0 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: JEDEC DO-201AD molded plastic • Polarity: Color band denotes cathode • Weight: 1.071grams 	<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 \varnothing</td> <td>1.30 \varnothing</td> </tr> <tr> <td>D</td> <td>5.0 \varnothing</td> <td>5.60 \varnothing</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		
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<p>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%</p>																						
Characteristics	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 $I_F=5A$ @100°C	V_F	0.55		0.7		0.85		0.87	0.9		V											
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	I_R	0.5				0.2					mA											
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

