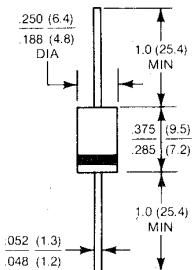


# Lagertyp SB340

 <p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Low cost</li> <li>• Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing General Instrument Proprietary 4B Flame Retardant Epoxy Molding Compound.</li> <li>• Exceeds environmental standards of MIL-STD-19500/228</li> <li>• Metal to silicon rectifier, majority carrier conduction</li> <li>• Low power loss, high efficiency</li> <li>• High current capability, low <math>V_F</math></li> <li>• High surge capacity</li> <li>• Epitaxial construction</li> <li>• For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.</li> </ul> <p><b>MECHANICAL DATA</b></p> <p>Case: DO201AD Molded Plastic      Terminals: Axial leads, solderable per MIL-STD-202, Method 208      Polarity: Band denotes cathode      Mounting Position: Any      Weight: 0.04 ounces, 1.12 grams</p>	<p><b>VOLTAGE RANGE</b> 20 to 60 Volts</p> <p><b>CURRENT</b> 3.0 Amperes</p> <p><b>DO-201-AD</b></p>  <p>Dimensions in inches and (millimeters)</p>																																																																																			
	<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b></p> <p>Ratings at 25° ambient temperature unless otherwise specified.      Single phase, half wave, 60Hz, resistive or inductive load.      For capacitive load, derate current by 20%.</p> <table border="1"> <thead> <tr> <th></th> <th>SB320</th> <th>SB330</th> <th>SB340</th> <th>SB350</th> <th>SB360</th> <th>UNITS</th> </tr> </thead> <tbody> <tr> <td>Maximum Recurrent Peak Reverse Voltage</td> <td>20</td> <td>30</td> <td>40</td> <td>50</td> <td>60</td> <td>V</td> </tr> <tr> <td>Maximum RMS Voltage</td> <td>14</td> <td>21</td> <td>28</td> <td>35</td> <td>42</td> <td>V</td> </tr> <tr> <td>Maximum DC Blocking Voltage</td> <td>20</td> <td>30</td> <td>40</td> <td>50</td> <td>60</td> <td>V</td> </tr> <tr> <td>Maximum Average Forward Rectified Current .375", 9.5mm Lead Length See Fig. 1</td> <td></td> <td></td> <td></td> <td>3.0</td> <td></td> <td>A</td> </tr> <tr> <td>Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)</td> <td></td> <td></td> <td></td> <td>150</td> <td></td> <td>A</td> </tr> <tr> <td>Maximum Forward Voltage at 3.0 A</td> <td>.50</td> <td></td> <td>.75</td> <td></td> <td></td> <td>V</td> </tr> <tr> <td>Maximum DC Reverse Current at Rated DC Blocking Voltage      <math>T_A = 25^\circ\text{C}</math>                                       <math>T_A = 100^\circ\text{C}</math></td> <td></td> <td></td> <td>3.0</td> <td>30</td> <td></td> <td>mA mA</td> </tr> <tr> <td>Typical Thermal Resistance <math>R_{\theta JA}</math> (Note 1)</td> <td></td> <td></td> <td>35</td> <td></td> <td></td> <td>°C/W</td> </tr> <tr> <td>Typical Junction Capacitance (Note 2)</td> <td></td> <td></td> <td>190</td> <td></td> <td></td> <td>pF</td> </tr> <tr> <td>Operating Temperature Range <math>T_J</math></td> <td>-65 to +125</td> <td></td> <td>-65 to +150</td> <td></td> <td></td> <td>°C</td> </tr> <tr> <td>Storage Temperature Range <math>T_A</math></td> <td></td> <td>-65 to +150</td> <td></td> <td></td> <td></td> <td>°C</td> </tr> </tbody> </table> <p>NOTES: 1—Thermal Resistance Junction to Ambient Vertical PC Board Mounting, 0.5" Lead Length      2—Measured at 1 MHz and applied reverse voltage of 4.0 volts</p>		SB320	SB330	SB340	SB350	SB360	UNITS	Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	V	Maximum RMS Voltage	14	21	28	35	42	V	Maximum DC Blocking Voltage	20	30	40	50	60	V	Maximum Average Forward Rectified Current .375", 9.5mm Lead Length See Fig. 1				3.0		A	Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)				150		A	Maximum Forward Voltage at 3.0 A	.50		.75			V	Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$			3.0	30		mA mA	Typical Thermal Resistance $R_{\theta JA}$ (Note 1)			35			°C/W	Typical Junction Capacitance (Note 2)			190			pF	Operating Temperature Range $T_J$	-65 to +125		-65 to +150			°C	Storage Temperature Range $T_A$		-65 to +150			
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