
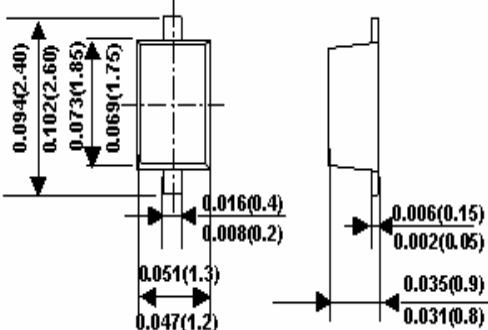
	<h2 style="margin: 0;">AES1A THRU AES1J</h2> <h3 style="margin: 0;">175mA. Super Fast Surface Mount Rectifiers</h3>									
		Voltage Range 50 to 600 Volts Current 175 mAmpere								
<p>Features</p> <ul style="list-style-type: none"> ✧ Glass passivated junction chip ✧ For surface mounted application ✧ Low profile package ✧ Built-in strain relief, ✧ Ideal for automated placement ✧ Easy pick and place ✧ Superfast recovery time for high efficiency ✧ Glass passivated chip junction ✧ High temperature soldering: 260°C/10 seconds at terminals ✧ Plastic material used carries Underwriters Laboratory Classification 94V-O <p>Mechanical Data</p> <ul style="list-style-type: none"> ✧ Cases: Molded plastic ✧ Terminals: Solder plated ✧ Polarity: Indicated by cathode band ✧ Packing: tape per E1A STD RS-481 ✧ Weight: 0.01 gram 	<p>SOD-323F</p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</p>									
<p>Maximum Ratings and Electrical Characteristics</p>										
<p>Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%</p>										
<p>Type Number</p>	<p>Symbol</p>	<p>AES 1A</p>	<p>AES 1B</p>	<p>AES 1C</p>	<p>AES 1D</p>	<p>AES 1F</p>	<p>AES 1G</p>	<p>AES 1H</p>	<p>AES 1J</p>	<p>Units</p>
<p>Maximum Recurrent Peak Reverse Voltage</p>	<p>V_{RRM}</p>	<p>50</p>	<p>100</p>	<p>150</p>	<p>200</p>	<p>300</p>	<p>400</p>	<p>500</p>	<p>600</p>	<p>V</p>
<p>Maximum RMS Voltage</p>	<p>V_{RMS}</p>	<p>35</p>	<p>70</p>	<p>105</p>	<p>140</p>	<p>210</p>	<p>280</p>	<p>350</p>	<p>420</p>	<p>V</p>
<p>Maximum DC Blocking Voltage</p>	<p>V_{DC}</p>	<p>50</p>	<p>100</p>	<p>150</p>	<p>200</p>	<p>300</p>	<p>400</p>	<p>500</p>	<p>600</p>	<p>V</p>
<p>Marking Code</p>		<p>EA</p>	<p>EB</p>	<p>EC</p>	<p>ED</p>	<p>EF</p>	<p>EG</p>	<p>EH</p>	<p>EJ</p>	
<p>Maximum Average Forward Rectified Current @85°C @ 25°C</p>	<p>$I_{(AV)}$ $I_{(PEAK)}$</p>	<p>175 625</p>								<p>mA</p>
<p>Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)</p>	<p>I_{FSM}</p>	<p>20</p>								<p>A</p>
<p>Maximum Instantaneous Forward Voltage $I_F=175mA$ @ 85°C @ 25°C</p>		<p>1.25 1.45</p>								<p>V</p>
<p>Maximum DC Reverse Current @ $T_A=25°C$ at Rated DC Blocking Voltage</p>	<p>I_R</p>	<p>0.1</p>								<p>uA</p>
<p>Maximum Reverse Recovery Time (Note 1)</p>	<p>T_{rr}</p>	<p>50</p>								<p>nS</p>
<p>Typical Junction Capacitance (Note 2)</p>	<p>C_j</p>	<p>5</p>								<p>pF</p>
<p>Maximum Thermal Resistance (Note 3)</p>	<p>$R_{\theta JA}$ $R_{\theta JL}$</p>	<p>85 35</p>								<p>°C/W</p>
<p>Operating Temperature Range</p>	<p>T_J</p>	<p>-40 to +85</p>								<p>°C</p>
<p>Storage Temperature Range</p>	<p>T_{STG}</p>	<p>-40 to + 85</p>								<p>°C</p>

Notes: 1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
 2. Measured at 1 MHz and Applied $V_R=4.0$ Volts
 3. P.C.B. Mounted on 0.2 x 0.2"(5.0 x 5.0mm) Copper Pad Area.