ABS22~ABS210
Single Phase 2.0Amp Glass passivated Bridge Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
  250°C/10 seconds at terminals

Mechanical Data

Case: Molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
Polarity: Polarity symbol marking on body
Mounting Position: Any
Weight: 0.0034 ounce, 0.098 grams

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 current derate by 20%.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>SYMBOLS</th>
<th>ABS22</th>
<th>ABS24</th>
<th>ABS26</th>
<th>ABS28</th>
<th>ABS210</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum repetitive peak reverse voltage</td>
<td>V_{RRM}</td>
<td>200</td>
<td>400</td>
<td>600</td>
<td>800</td>
<td>1000</td>
<td>V</td>
</tr>
<tr>
<td>Maximum RMS voltage</td>
<td>V_{RMS}</td>
<td>140</td>
<td>280</td>
<td>420</td>
<td>560</td>
<td>700</td>
<td>V</td>
</tr>
<tr>
<td>Maximum DC blocking voltage</td>
<td>V_{DC}</td>
<td>200</td>
<td>400</td>
<td>600</td>
<td>800</td>
<td>1000</td>
<td>V</td>
</tr>
<tr>
<td>Maximum average forward rectified current at T_J=100°C On glass-epoxy P.C.B (Note 1)</td>
<td>I_{AV}</td>
<td>2.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load</td>
<td>I_{FSM}</td>
<td>60.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Rating for fusing (t=8.3ms, T_A=25°C)</td>
<td>I_{T}</td>
<td>14.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A^2s</td>
</tr>
<tr>
<td>Maximum instantaneous forward voltage at 2.0A</td>
<td>V_{F}</td>
<td>1.10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Maximum DC reverse current at rated DC blocking voltage at T_A=25°C</td>
<td>I_{R}</td>
<td>5.0</td>
<td>500</td>
<td></td>
<td></td>
<td></td>
<td>uA</td>
</tr>
<tr>
<td>Typical junction capacitance (Note 2)</td>
<td>C_J</td>
<td>23.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>pF</td>
</tr>
<tr>
<td>Typical thermal resistance</td>
<td>R_{QJA}</td>
<td>85.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>°C/W</td>
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<tr>
<td>Operating junction and storage temperature range</td>
<td>T_J,T_STG</td>
<td>-55  to +150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>°C</td>
</tr>
</tbody>
</table>

Note:
1. Mounted on glass epoxy PC board with 1.3*1.3mm solder pad
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
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Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

Average Forward Rectified Current Amperes

Peak Forward Surge Current Amperes

Instantaneous Forward Current Amperes

Instantaneous Reverse Leakage Current Micro Amperes

Volts

Instantaneous Forward Voltage

Percent Of Rated Peak Reverse Voltage(%)