DELTA P/N: TLB138050F Series

Mechanical Dimensions & Schematic

UNIT: mm
A = 13.0 MAX
B = 8.0 MAX
C = 5.0 MAX
D = 7.8
E = 2.5
F = 1.1
G = 1.2
H = 2.0
I = 2.5
J = 1.6
K = 7.3
L = 13.3
M = 0.7

Suggested PWB Layout

DCR Measure Points

Electrical Characteristics @ 25℃, 100kHz, 1V

<table>
<thead>
<tr>
<th>Delta P/N</th>
<th>L (nH) ±15%</th>
<th>Li (nH) MIN</th>
<th>DCR (mΩ) ±15%</th>
<th>Isat 1 (A)</th>
<th>Ir 2 (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLB138050F-101</td>
<td>100</td>
<td>64</td>
<td>0.55</td>
<td>90</td>
<td>30</td>
</tr>
<tr>
<td>TLB138050F-121</td>
<td>120</td>
<td>77</td>
<td>0.99</td>
<td>73</td>
<td>30</td>
</tr>
<tr>
<td>TLB138050F-151</td>
<td>150</td>
<td>96</td>
<td></td>
<td>45</td>
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<tr>
<td>TLB138050F-181</td>
<td>180</td>
<td>115</td>
<td></td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>TLB138050F-201</td>
<td>200</td>
<td>128</td>
<td></td>
<td>33</td>
<td></td>
</tr>
</tbody>
</table>

1. Isat is the DC current which causes the inductance drop to Li
2. Ir is the DC current which causes the surface temperature of the part increase approximately 40 ℃.
3. Operating temperature: -40℃ to 125℃ (Self-temperature rise included).