**MAXIMUM RATINGS:** \((T_A=25°C)\)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>(V_{RRM})</td>
<td>600 V</td>
</tr>
<tr>
<td>(V_R)</td>
<td>600 V</td>
</tr>
<tr>
<td>(V_{R(RMS)})</td>
<td>420 V</td>
</tr>
<tr>
<td>(I_O)</td>
<td>10 A</td>
</tr>
<tr>
<td>(I_{FSM})</td>
<td>150 A</td>
</tr>
</tbody>
</table>

**APPLICATIONS:**
- Power Factor Correction (PFC)
- Motor control
- Power management
- DC-DC output rectification

**ELECTRICAL CHARACTERISTICS:** \((T_A=25°C\) unless otherwise noted)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Test Conditions</th>
<th>Min</th>
<th>TYP</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>(I_R)</td>
<td>(V_R=600V)</td>
<td>1.2</td>
<td>10</td>
<td>500</td>
<td>(\mu A)</td>
</tr>
<tr>
<td>(I_R)</td>
<td>(V_R=600V, T_A=150°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(BVR)</td>
<td>(I_R=0.5mA)</td>
<td>600</td>
<td></td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>(V_F)</td>
<td>(I_F=10A)</td>
<td>1.6</td>
<td>1.7</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>(V_F)</td>
<td>(I_F=10A, T_A=125°C)</td>
<td>1.15</td>
<td></td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>(V_F)</td>
<td>(I_F=10A, T_A=40°C)</td>
<td>1.8</td>
<td></td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>(C_J)</td>
<td>(V_R=4.0V, f=1.0MHz)</td>
<td>42</td>
<td></td>
<td></td>
<td>pF</td>
</tr>
<tr>
<td>(t_{rr})</td>
<td>(I_F=10A, V_R=400V, dl/dt=200A/\mu s)</td>
<td>22</td>
<td></td>
<td>25</td>
<td>ns</td>
</tr>
</tbody>
</table>

Notes: (1) FR-4 epoxy PCB with 25cm² copper pad area.
TLM364 CASE - MECHANICAL OUTLINE

LEAD CODE:
1) Anode
2) Anode
3) Cathode

MARKING CODE: CHR1006

R1 (27-February 2014)
TYPICAL ELECTRICAL CHARACTERISTICS

Leakage Current

Forward Voltage

Capacitance

Current Derating

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• Custom bar coding for shipments
• Custom product packing

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• Customer specific screening
• Up-screening capabilities
• Special wafer diffusions
• PbSn plating options
• Package details
• Application notes
• Application and design sample kits
• Custom product and package development

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2. If requesting Lead (Pb) Free plated devices, add the suffix “PBFREE” to the part number when ordering (example: 2N2222A PBFREE).

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