Flyback Transformer
For Texas Instruments UCC28600
Flyback Green Mode Controller

- Triple-output flyback transformer
- Designed to operate at 50 kHz with universal ac input
- 3000 Vrms, one minute isolation from primary and bias to secondaries

Core material: Ferrite
Terminations: RoHS compliant tin-silver over tin over copper over steel. Other terminations available at additional cost.
Weight: 9.7 g
Ambient temperature: -40°C to +85°C
Storage temperature: Component: -40°C to +85°C. Tray packaging: -40°C to +80°C
Moisture Sensitivity Level (MSL): 1 (unlimited floor life at <30°C / 85% relative humidity)
Failures in Time (FIT) / Mean Time Between Failures (MTBF): 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging: 100 per tray
PCB washing: Only pure water or alcohol recommended

<table>
<thead>
<tr>
<th>Part number</th>
<th>L at 0 A</th>
<th>L at Ipk</th>
<th>DCR max</th>
<th>Leakage L</th>
<th>Turns</th>
<th>Ipk</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA4018-AL</td>
<td>2.2</td>
<td>1.7</td>
<td>1.55 pri</td>
<td>28.5</td>
<td>6.4:1</td>
<td>0.3</td>
<td>+15 V, 0.05 A (sec 1)</td>
</tr>
<tr>
<td></td>
<td>±10% (mH)</td>
<td>min (mH)</td>
<td>(Ohms)</td>
<td></td>
<td>pri:bias</td>
<td></td>
<td>+5 V, 0.35 A (sec 2)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.350 (bias)</td>
<td></td>
<td>-15 V, 0.125 A (sec 3)</td>
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<td></td>
<td></td>
<td></td>
<td>0.061 (sec 1)</td>
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<td>+12 V, 20 mA (bias)</td>
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<td>0.305 (sec 2)</td>
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<td></td>
<td></td>
<td>0.450 (sec 3)</td>
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</table>

1. Inductance is for the primary, measured at 50 kHz, 0.1 Vrms, 0 A dc.
2. Ipk is peak primary current drawn at minimum input voltage.
3. Leakage inductance is for the primary winding, measured at 50 kHz, 0.1 Vrms, 0 A with all secondary pins shorted.
4. Electrical specifications at 25°C.

Recommended PC Board Layout

Dimensions are in inches/mm

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