Flyback Transformer

For Maxim MAX17597
Flyback Configuration

- Mounted on Maxim MAX17597 Evaluation Kit
- 18 V – 36 V primary input
- 24 V, 0.833 A output
- 1500 Vrms, one minute isolation between primary and secondary

Core material  Ferrite
Terminations  RoHS tin-silver-copper (96.5/3.0/0.5) over tin over nickel over phos bronze. Other terminations available at additional cost.
Weight  13.4 g
Ambient temperature  -40°C to +125°C
Maximum part temperature  135°C (ambient + temp rise)
Storage temperature  Component: -40°C to +125°C.
Tray packaging: -40°C to +80°C
Resistance to soldering heat  Max three 40 second refows at +260°C, parts cooled to room temperature between cycles
Moisture Sensitivity Level (MSL)  1 (unlimited floor life at <30°C / 85% relative humidity)
Packaging 100 parts per tray
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 Adc1 ±10% (µH)</th>
<th>Inductance at Ipk2 min (mH)</th>
<th>DCR max (Ohms) pri sec</th>
<th>Leakage Inductance3 max (µH)</th>
<th>Turns ratio pri : sec</th>
<th>Ipk2 (A)</th>
<th>Output</th>
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<tbody>
<tr>
<td>CU8758-AL</td>
<td>33</td>
<td>26</td>
<td>0.03 0.041</td>
<td>0.8</td>
<td>1 : 1.85</td>
<td>3.3</td>
<td>24 V, 0.833 A</td>
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1. Inductance is for the primary, measured at 200 kHz, 0.1 Vrms.
2. Peak primary current drawn at minimum input voltage.
3. Leakage inductance is for the primary winding with the secondary winding shorted.
4. Electrical specifications at 25°C.

The following pins to be connected on the PC board:
Pins 1 – 2
Pins 3 – 4
Pins 5 – 6
Pins 7 – 8

Dimensions are in inches

Recommended PC Board Layout

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