Flyback Transformer

For Texas Instruments LM5001 Switch Mode Regulator

• Developed for the Texas Instruments LM5001 High Voltage Switch Mode regulator for isolated and non-isolated flyback topologies.
• Output of the auxiliary winding is 7.5 V used to power the IC
• 1500 Vrms, one minute isolation from the primary and auxiliary winding to the secondary

Core material  Ferrite
Terminations  RoHS tin-silver over tin over nickel over phos bronze.
Weight  6.28 g
Ambient temperature  –40°C to +85°C
Storage temperature  Component: –40°C to +85°C.
Tape and reel packaging: –40°C to +80°C
Resistance to soldering heat  Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles
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  175 per 13” reel Plastic tape: 32 mm wide, 0.5 mm thick, 32 mm pocket spacing, 12.98 mm pocket depth
PCB washing  Only pure water or alcohol recommended

<table>
<thead>
<tr>
<th>Part number1</th>
<th>Inductance at 0 A2 ±10% (µH)</th>
<th>Inductance at Ipk3 min (µH)</th>
<th>DCR max (Ohms)4</th>
<th>Leakage inductance max (µH)5</th>
<th>Turns ratio6</th>
<th>Ipk3 (A)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2636-AL</td>
<td>160</td>
<td>144</td>
<td>0.225</td>
<td>0.340</td>
<td>0.078</td>
<td>1.60</td>
<td>8 : 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.340</td>
<td>0.078</td>
<td>8 : 3</td>
<td>1.0</td>
<td>5.0 V, 1.0 A</td>
</tr>
</tbody>
</table>

1. When ordering, please specify packaging code:

FA2636-ALD
Packaging: 

D = 13” machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel).
B = Less than full reel. In tape, but not machine ready.
To have a leader and trailer added ($25 charge), use code letter D instead.

2. Inductance is for the primary, measured at 250 kHz, 0.2 Vrms, 0 Adc.
3. Ipk is peak primary current drawn at minimum input voltage.
4. DCR for the secondary is per winding.
5. Leakage inductance measured between pins 3 and 2 with all other pins shorted.
6. Turns ratio is with the secondary windings connected in parallel.
7. Operating temperature range –40°C to +85°C.
8. Electrical specifications at 25°C.
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Dimensions are in inches

Recommended Land Pattern

Secondary windings to be connected in parallel on the PC board.

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