HVLED805
Off-line LED driver with primary-sensing

Features
■ 800 V, avalanche rugged internal power MOSFET
■ 5% accuracy on constant LED output current with primary control
■ Optocoupler not needed
■ Quasi-resonant (QR) zero voltage switching (ZVS) operation
■ Internal HV start-up circuit
■ Open or short LED string management
■ Automatic self supply
■ Input voltage feed-forward for mains independent cc regulation

Applications
■ AC-DC led driver applications
■ LED retrofit lamps (i.e. E27, GU10)

Table 1. Device summary

<table>
<thead>
<tr>
<th>Order codes</th>
<th>Package</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVLED805</td>
<td>SO16N</td>
<td>Tube</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HVLED805TR Tape and reel</td>
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</tbody>
</table>

Figure 1. Application diagram

Rdmg
Rfb
...
Vin

3.3V
Vref

Vc
VCC
DMG
DE MAG LOGIC
PROTECTION & FEEDFORWARD LOGIC
CONSTANT CURRENT REGULATION

DRIVING LOGIC
OCP

COMP
ILED
GND
SOURCE

CONSTANT VOLTAGE REGULATION

PROTECTION & FEEDFORWARD LOGIC

Vin

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