**Product Description:** 60V, 300mA, Integrated MOSFET, High-Efficiency, Synchronous Step-Down DC-DC Converter **<<< Use CTRL+H Find/Replace 12345 with your part number, replace AX00 with your die type >>>**

**Personnel:**

|  |  |  |
| --- | --- | --- |
| **Business Unit** | BDI |  |
| **Business Manager** | Viral Vaidya | Sunnyvale, 408-530-6207 |
| **Corp. App. Engineer** | Venkata Nandam | Bangalore, Skype : venkata.nandam.maxim |
| **Design Engineer** | S Ramaseshan | Bangalore, Skype : |
| **EV Kit Engineer** |  | Bangalore, Skype : |

**IC Status and EVKIT Quantity:**

|  |  |  |
| --- | --- | --- |
| **Estimated IC tape-out/PG date** |  |  |
| **Estimated IC PP/BB parts date** |  |  |
| **Estimated IC Intro date** |  |  |
| **First build EVKIT prototype Qty.** | 20 boards | RoHS Compliant |
| **Additional prototype Qty.** | 10 boards | RoHS Compliant |
| **EVKIT Production Qty.** | 20 boards | RoHS Compliant |

**EVKIT Description:**

|  |  |
| --- | --- |
| **Name (silk screen)** | MAX15062B EVALUATION KIT# |
| **Part Number** | MAX15062BEVKIT# |
| **Evaluates** | MAX15062B |

**IC Information:**

|  |  |
| --- | --- |
| **Product** | 15062B |
| **Die Type** | PI02 |
| **Package Type** | 8-lead, TDFN 2mmX2mm |
| **Exposed Paddle** | No |

**PCB Information:**

|  |  |
| --- | --- |
| **Number of Layers** |  |
| **Copper Thickness** |  |
| **Dielectric Type** | FR4-08 or similar |
| **Board Thickness** | Standard (0.062”) |
| **IC Placement** |  |
| **Controlled Impedance** |  |

**PCB Layout Notes:**

1. The DE, CAE, EVKE, and AM will require approval before commencing DRC for the EV Kit.

**\*Please attach Reference Design files here**

**Checklist:**

|  |  |
| --- | --- |
| 1. **BOM** | Included Excel BOM |
| 1. **Schematics** | Included |
| 1. **Approved IC Pin Out, Package and Code** | Yes |
| 1. **Pin Description** | Included |
| 1. **Components data sheet (for new parts)** | Included |

1. **Attach BOM here []**
2. **Attach Schematic here []**
3. **Attach approve IC Pin Out, Package and Code**

**IC Pin Out, Package and Code:**

|  |
| --- |
| **MAX15062**  **IC Pin-Out, Package and Code Confirmation:** |
| **Please confirm the following:**   * **IC PINOUT is CORRECT.** * **IC PACKAGE** 8-lead, TDFN 2mmX2mm * **IC PACKAGE CODE is** T822CN+1 |
| **DE SIGNATURE: Date:**  **Email Approval: Date:** |

1. **Attach Pin Description**

| **PIN** | **NAME** | **FUNCTION** |
| --- | --- | --- |
| 1 | IN | Switching Regulator Input. Connect a 1FF capacitor from IN to GND. |
| 2 | EN/UVLO | Active-High Enable Input/Under-voltage-Detection Input. Pull EN/UVLO to GND to disable the buck-converter output. Connect EN/UVLO to IN for always-on operation. Connect a resistive divider between IN and EN/UVLO to GND to program the input voltage at which the device is enabled and turns on. |
| 3 | VCC | Internal LDO Output. Bypass VCC to GND with a minimum 1FF capacitor. |
| 4 | FB | Feedback Input. Inverting input of internal error amplifier. Connect FB to the midpoint of a resistive divider between the buck-converter output and GND to adjust the output voltage from 1V to 12V. For 3.3V and 5.0V output version devices, connect FB directly to the output. |
| 5 | MODE | PFM/PWM selection input. Connect MODE to GND to enable constant fixed frequency PWM operation. Leave it unconnected for light load PFM operation. |
| 6 | RESET\ | Open-Drain Reset Output. Pull up RESET to an external power supply with an external resistor. RESET monitors both VIN and output. RESET goes low when either VIN or output voltage drops below internally set thresholds. RESET goes high TBDms after the output voltage rises above 94% of its regulation value and VIN is above an internally set threshold. See the *Electrical Characteristics* table for threshold values pertaining to fixed and adjustable output versions. |
| 7 | GND | Ground. Connect GND to the power ground plane. Connect all circuit ground connections together at a single point. |
| 8 | LX | Inductor Connection. Connect LX to the switched side of the inductor. LX is high impedance when the device is in shutdown. |

1. **Attach Pin Configuration**



1. **Attach data sheets for new parts here []**