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|--------------------------|--------------------------|------------------|------------------|
| PCN Number: | 20231011000.0.A | PCN Date: | October 26, 2023 |
| Title: | Datasheet for DLPA3000 | | |
| Customer Contact: | Change Management team | Dept: | Quality Services |
| Change Type: | Electrical Specification | | |

PCN Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.



DLPA3000

DLPS052A – OCTOBER 2015 – REVISED SEPTEMBER 2023

| Changes from Revision * (October 2015) to Revision A (September 2023) | Page |
|--|------|
| • Removed unsupported General Purpose Buck Converters in Features | 1 |
| • Updated this data sheet per the latest industry and Texas Instruments standards..... | 1 |
| • Removed unsupported buck converters, and updated System Block Diagram in Description | 1 |
| • Updated Pin Configuration and Functions | 4 |
| • Updated Section 7.3 | 9 |
| • Updated Electrical Characteristics | 10 |
| • Removed unsupported general purpose buck converters in Overview | 17 |
| • Updated Functional Block Diagram | 17 |
| • Removed unsupported general purpose buck converters in Supply | 17 |
| • Updated register names in Monitoring | 19 |
| • Updated Block Faults | 20 |
| • Updated register names in Low Battery and UVLO | 20 |
| • Updated LDO Illum | 22 |
| • Updated Break Before Make (BBM) | 25 |
| • Updated LDO DMD | 28 |
| • Removed unsupported general purpose buck converters 1 and 3 in Buck Converters | 34 |
| • Removed unsupported general purpose buck converters in LDO Bucks | 34 |
| • Removed unsupported general purpose buck converters 1 and 3 in General Purpose Buck Converters | 34 |
| • Removed unsupported General Purpose Buck Converters 1 and 3 in Buck Converter Monitoring | 36 |
| • Removed unsupported General Purpose Buck Converters 1 and 3 in Power Good | 36 |
| • Updated Overvoltage Fault | 36 |
| • Removed light sensor use-case in Measurement System | 37 |
| • Added the SPI Timing Diagram in SPI | 38 |
| • Removed unsupported general purpose buck converters in Interrupt | 38 |
| • Updated Register Maps | 42 |
| • Updated the System Block Diagram in Typical Application Setup Using DLPA3000 | 46 |
| • Updated Typical Application with DLPA3000 Internal Block Diagram | 48 |
| • Updated Layout Guidelines | 50 |
| • Updated Layout Example | 50 |
| • Removed unsupported general purpose buck converter in SPI Connections | 51 |
| • Updated R_{LIM} Routing | 52 |
| • Updated Section 11.5 | 52 |
| • Updated Thermal Considerations | 53 |

The datasheet number will be changing.

| | | |
|-----------------|--------------|-----------------|
| Device Family | Change From: | Change To: |
| DLPA3000 | DLPS052 | DLPS052A |

| | | | |
|---|---------------|--|--|
| These changes may be reviewed at the datasheet links provided. http://www.ti.com/product/DLPA3000 | | | |
| Reason for Change: | | | |
| To accurately reflect device characteristics. | | | |
| Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative): | | | |
| No anticipated impact. This is a specification change announcement only. There are no changes to the actual device | | | |
| Changes to product identification resulting from this PCN: | | | |
| None. | | | |
| Product Affected: | | | |
| DLPA3000DPFD | DLPA3000DPFDR | | |

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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