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| Title of Change: | NCP3237 Thermal Shutdown Trim Code revision and datasheet update |
| Proposed First Ship date: | 02 Nov 2022 or earlier if approved by customer |
| Contact Information: | Contact your local onsemi Sales Office or Wayne.Cheng@onsemi.com |
| PCN Samples Contact: | Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements. |
| Additional Reliability Data: | N/A |
| Type of Notification: | This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com |
| Marking of Parts/ Traceability of Change: | The affected products will be identified with date code |
| Change Category: | Test Change |
| Change Sub-Category(s): | Datasheet/Product Doc change, Product specific change |

Sites Affected:

onsemi Sites

onsemi Carmona, Philippines

External Foundry/Subcon Sites

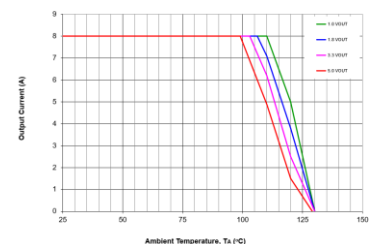
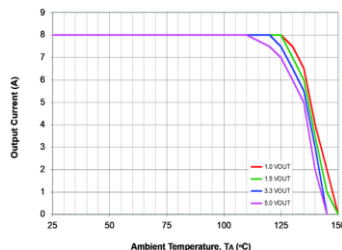
None

Description and Purpose:

- This PCN for update test program trim to increase Temperature shut down threshold to 133C, and update datasheet to ver4.

| | From | To |
|--------------------------------------|---|--|
| Thermal Resistance Junction to Board | Thermal Resistance Junction to Board $R_{\psi JB} = 12^{\circ}\text{C}/\text{W}$ | Thermal Resistance Junction to Bottom Case/Leads $R_{\theta JC} = 3.3^{\circ}\text{C}/\text{W}$ |
| Junction Temperature, Max | 150°C | 130°C |
| Thermal Shutdown (TSD) Threshold | 160°C | 133°C |
| Recovery Temperature Threshold | 135°C | 116°C |

Figure 6. Thermal Safe Operating Area, No Airflow, PCB: 2 oz. Cu



- Add Note for Junction Temperature: (Note 3) Device specifications tested and characterized for 150C operation with the Tsd function disabled.



Final Product/Process Change Notification

Document #:FPCN24817X

Issue Date:28 Jul 2022

Electrical Characteristics Summary:

Electrical characteristics are not impacted

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

| Part Number | Qualification Vehicle |
|--------------|-----------------------|
| NCP3237MNTXG | NCP3237MNTXG |

Appendix A: Changed Products

PCN#: FPCN24817X
Issue Date: Jul 28, 2022

| Product | Customer Part Number | Qualification Vehicle | New Part Number | Replacement Supplier |
|--------------|----------------------|-----------------------|-----------------|----------------------|
| NCP3237MNTXG | | NCP3237MNTXG | NA | |