**Product / Process Change Notice**

**Parts Affected:**

The 2N6059 NPN power darlington transistor wafer process.

**Extent of Change:**

Change in wafer fab, resulting in change in die size. The die size changed from 162 x 162 mils to 131 x 131 mils.

**Reason for Change:**

As part of Central Semiconductor’s supply chain risk mitigation initiative, and in an effort to ensure an undisrupted supply of product, a change in wafer fabrication site is being made for the referenced products. Product specifications, quality and reliability are not impacted by this change.

**Effect of Change:**

This change does not affect electrical device characteristics.

**Qualification:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test** | **Condition** | **Duration** | **Failure rate** |
| **High Temperature****Storage Life**  | Ta=150°C | 168 Hours | 0/22 |
| **Low Temperature****Storage Life**  | Ta=-65°C | 168 Hours | 0/22 |
| **High Temperature Reverse Bias**  | Ta=150℃, 80% Rated Voltage  | 168 Hours | 0/22 |
| **Operating Life**  | Ta=-65°C, Tc=110°C | 168 Hours | 0/22 |
| **Pressure Cooker** | Ta=119.6°C, P=2atm | 144 Hours | 0/22 |
| **Temperature Cycling****(Air-to-Air)**  | Ta= -65 30min Ta= +150 30min Transfer time less than 1min.  | 50 Cycles | 0/22  |

**Effective Date of Change:**

Existing inventory will be shipped until depleted.

**Sample Availability:**

Please contact your salesperson or manufacturer’s representative for samples.

**Part Numbers Affected:**

|  |  |  |
| --- | --- | --- |
| BDX85  | MJ1000  | SE9303  |
| BDX85A  | MJ1001  | SE9304  |
| BDX85B  | MJ3000  | SE9305  |
| BDX85C  | MJ3001  | 2N6055  |
| BDX87  | PMD10K40  | 2N6056  |
| BDX87A  | PMD10K60  | 2N6057  |
| BDX87B  | PMD10K80  | 2N6058  |
| BDX87C  | PMD10K100  | 2N6059  |
| CEN1092  | PMD12K40  | 2N6383  |
| CEN1391  | PMD12K60  | 2N6384  |
| CEN992  | PMD12K80  | 2N6385 |
|  | PMD12K100  |  |

As per JEDEC standard JESD46, Customer Notification of Product/Process Changes by Solid-State Suppliers, a lack of acknowledgement of a PCN within thirty (30) days constitutes acceptance of the change.

The undersigned acknowledges and accepts Central Semiconductor’s Product/Process Change Notification (PCN).

|  |  |
| --- | --- |
| Company Name: |  |
| Address: |  |
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|  |
| Printed Name: |  |
| Title: |  |
| Signature: |  |
| Date: |  |