



## Process Change Notification

Dec-31-2017

**Title: MCC Will Use Glass Passivated Chip For 1N5391~1N5399 Rectifiers**

**PCN#: 123117-4**

**Planned Effective Date :Apr-1-2018**

**Reliability Data: Available per individual request**

**Samples contact: [Sales@mccsemi.com](mailto:Sales@mccsemi.com)**

**For question concerning this notification: [techsupport@mccsemi.com](mailto:techsupport@mccsemi.com)**

**Notification Type:**

Final Process/Product Change Notification(FPCN)

MCC will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact [techsupport@mccsemi.com](mailto:techsupport@mccsemi.com)



**Micro Commercial Components**®

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Tel:818-701-4933

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**Description and purpose :**

To be more environment friendly and provide more robust parts to our customers, MCC will use glass passivated chip (GPP) to replace OJ chip (Open Junction) for 1N5391~1N5399 series rectifiers. GPP structure is more reliable and has better performances than OJ structure, internal qualification process had been finished and the report is available by individual request. To identify the parts with GPP chip inside, MCC will assign new line code on body (see next page for details).

For any concern about this PCN, please feel free to contact your local sales representative or us directly via above E-mail address.

**Qualification Data and Summary:**

Devices were selected with 1000V voltage rating.

**Qualification Test Result:**

| Test                      | Condition                | Interval    | Results |
|---------------------------|--------------------------|-------------|---------|
| HTRB                      | Tj=150°C, 80% Vr,        | 1000 Hrs    | 0/77    |
| OP                        | Ta=25°C, Rated If,       | 1000 Hrs    | 0/77    |
| PCT                       | Ta=121°C, 100%RH, 15psig | 96 Hrs      | 0/77    |
| TC                        | -55°C~+150°C             | 1000 Cycles | 0/77    |
| Resistance to solder heat | 260°C for 10s            |             | 0/10    |
| Solderability             | 245°C for 5s             |             | 0/10    |



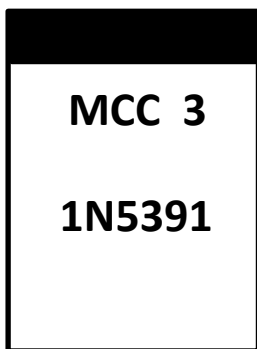
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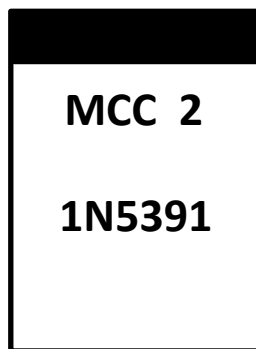
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**Changed Part Identification Example:**



Old



New

**Affected Parts List:**

|           |           |           |
|-----------|-----------|-----------|
| 1N5391-AP | 1N5391-BP | 1N5391-TP |
| 1N5392-AP | 1N5392-BP | 1N5392-TP |
| 1N5393-AP | 1N5393-BP | 1N5393-TP |
| 1N5394-AP | 1N5394-BP | 1N5394-TP |
| 1N5395-AP | 1N5395-BP | 1N5395-TP |
| 1N5396-AP | 1N5396-BP | 1N5396-TP |
| 1N5397-AP | 1N5397-BP | 1N5397-TP |
| 1N5398-AP | 1N5398-BP | 1N5398-TP |
| 1N5399-AP | 1N5399-BP | 1N5399-TP |