

## Product Change Notice

Issue Date: 22-November-2021

**Change Description:**

Introduce new lead frame source and die source

**Parts Affected:**

Group 1

|                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| HSMA-A100-Q00J1 | HSMC-A100-Q00J1 | HSME-A100-Q3TJ1 | HSMZ-A100-T00J1 |
| HSMA-A100-Q0PJ1 | HSMC-A100-Q40J1 | HZME-A100-N82J1 | HSMZ-A100-T70J1 |
| HSMA-A100-R40J1 | HSMC-A100-Q70J1 | HZME-A100-Q3TJ1 | HZMZ-A100-R00J1 |
| HSMA-A100-R4WJ1 | HSMC-A101-S00J1 | QSME-A10A-L01J1 | HSMM-A101-R00J1 |
| HSMA-A100-R45J1 | HSMC-A101-S30J1 | HSMJ-A100-Q00J1 | HSMM-A100-S00J1 |
| HSMA-A100-R6WJ1 | HSMC-A101-S40J1 | HSMJ-A100-R40J1 | HSMM-A100-U4PJ1 |
| HSMA-A100-R7NJ1 | HSMC-A101-S80J1 | HSMJ-A101-S00J1 | HSMM-A100-V4PJ1 |
| HSMA-A101-R8WJ1 | QSMC-A100-Q00J1 | HSMJ-A100-T40J1 | QSMM-A149-S00J1 |
| HSMA-A101-T2WJ1 | QSMC-A101-S00J1 | HZMJ-A100-Q00J1 | QZMM-A102-S00J1 |
| HSMA-A101-S00J1 | QSMC-A101-S30J1 | HZMJ-A100-R40J1 | HSMN-A101-N00J1 |
| HSMA-A101-S3WJ1 | HZMC-A100-Q00J1 | HZMJ-A101-S00J1 | HSMN-A100-P00J1 |
| HSMA-A101-S70J1 | HZMC-A100-R00J1 | HSML-A100-Q00J1 | HSMN-A100-R00J1 |
| HZMA-A100-Q00J1 | HZMC-A100-R20J1 | HSML-A100-R7YJ1 | HSMN-A100-R0YJ1 |
| HZMA-A100-R2WJ1 | HZMC-A101-S00J1 | HSML-A101-S00J1 | HSMN-A100-R8YJ1 |
| HZMA-A100-R40J1 | HZMC-A101-S30J1 | HSML-A101-S40J1 | HSMN-A100-S00J1 |
| HZMA-A100-R45J1 | HZMC-A100-S30J1 | HSML-A101-S4WJ1 | HSMN-A100-S4YJ1 |
| HZMA-A101-S00J1 | HZMC-A101-S40J1 | HZML-A100-Q00J1 | QZMN-A102-R00J1 |
| HZMA-A101-S70J1 | HZMC-A101-S80J1 | QSML-A118-T00J1 | HSMW-A100-V40J1 |
| QSMA-A133-T2WJ1 | QZMC-A100-Q00J1 | QSML-A118-T70J1 | ASMT-UAB4-PU802 |
| QSMA-A134-S3VJ1 | QZMC-A102-R00J1 | QSML-A101-S00J1 | AZMT-UAB4-PU802 |
| QSMA-A10A-Q00J1 | HSME-A100-L01J1 | QZML-A102-S00J1 | ASMT-UBB5-NS8Q2 |
| QSMA-A100-P5PJ2 | HSME-A100-L7YJ1 | HSMU-A100-R00J1 | ASMT-UBB5-NT3Y2 |
| QZMA-A100-P5PJ2 | HSME-A100-M02J1 | HSMU-A100-S00J1 | ASMT-UHB4-PU802 |
| QZMA-A102-S00J1 | HSME-A100-M3PJ1 | HZMU-A100-S00J1 | ASMT-UGB5-NW702 |
| HSMA-A160-S7WJ1 | HSME-A100-M4PJ1 | HSMV-A100-T00J1 | ASMT-UGB5-NW7Y2 |
| HSMC-A100-K50L2 | HSME-A100-N82J1 | HZMV-A100-T00J1 | ASMT-URB4-PU802 |
| HSMC-A100-R00J1 | HSME-A100-P32J1 | HSMZ-A100-R00J1 | AZMT-URB4-PU802 |
| HSMC-A101-R70J1 |                 |                 |                 |

Group 2

|                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| HSMD-A100-J00J1 | HZMG-A100-H01J1 | HZMH-A100-L00J1 | HZMS-A100-L00J1 |
| HSMD-A100-L00J1 | HZMG-A100-L02J1 | HZMH-A100-N00J1 | HSMY-A100-J00J1 |
| HZMD-A100-L00J1 | HZMG-A100-J02J1 | HSMS-A100-L00J1 | HSMY-A100-L00J1 |
| HZMD-A100-J00J1 | QSMG-A10A-J02J1 | HSMS-A100-J00J1 | HZMY-A100-J00J1 |
| HSMG-A100-J02J1 | HSMH-A100-N00J1 | QSMS-A10A-J00J1 | HZMY-A100-L00J1 |
| HSMG-A100-L02J1 | HSMH-A100-L00J1 | HZMS-A100-J00J1 | QSMY-A10A-J00J1 |
| HSMG-A100-H01J1 |                 |                 |                 |

Group 3

|                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| HSMF-A201-A00J1 | HSMF-A202-A00J1 | HSMF-A203-A00J1 | HSMF-A204-A00J1 |
| HSMF-A205-A00J1 | HSMF-A206-A00J1 | HSMF-A211-A00J1 | HSMF-A212-A00J1 |

**Description and Extent of Change:**

- Introduce new lead frame source for part numbers in Group 1
- Introduce new lead frame and die source for part numbers in Group 2
- Introduce new die source for part numbers in Group 3

**Reasons for Change:**

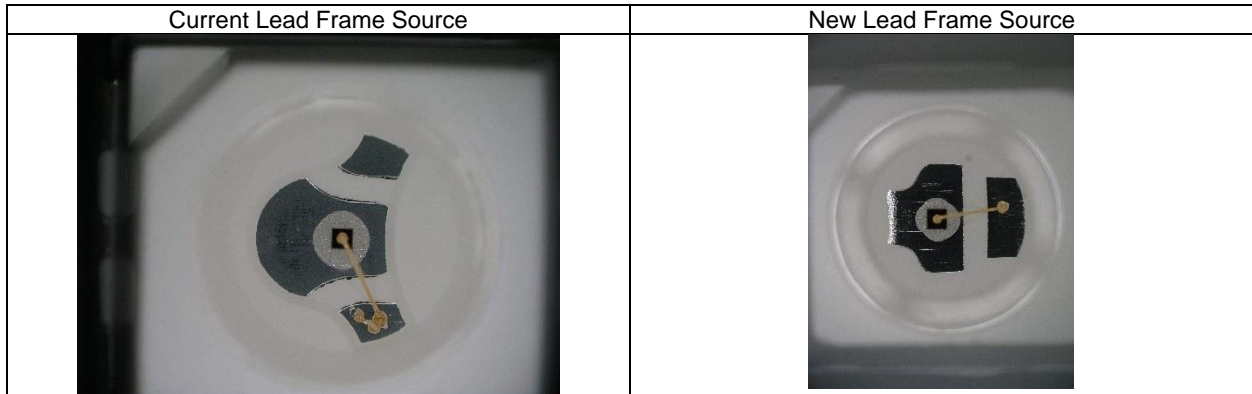
1. Assurance of supply for lead frame
2. Obsolescence of existing die for part numbers in Group 2 & 3

**Effect of Change on Fit, Form, Function, Quality, or Reliability:**

There will be no change on fit, form, function, quality and reliability of final product.

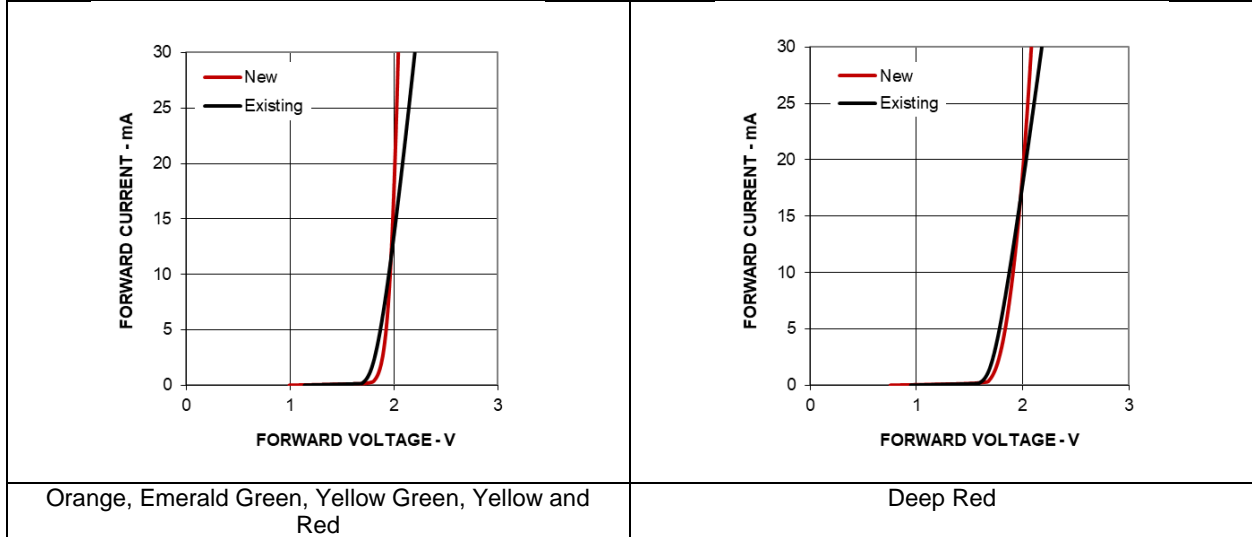
1. Lead frame change (Part numbers in Group 1 and 2)

Outlook is different as illustrated below:

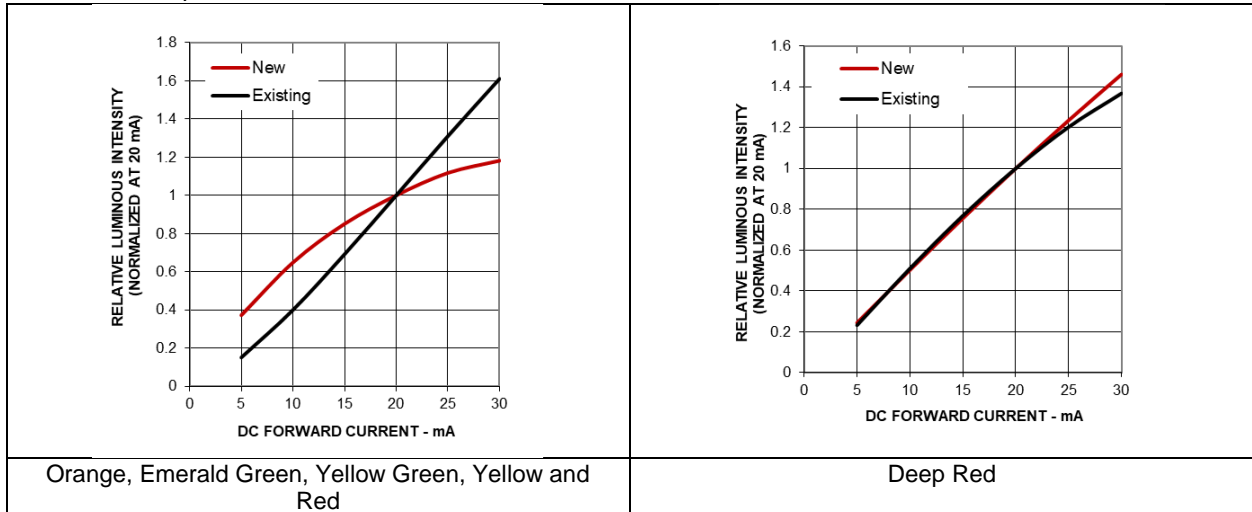


2. New die source (Part numbers in Group 2 and 3)  
 Following are the changes in product characteristic

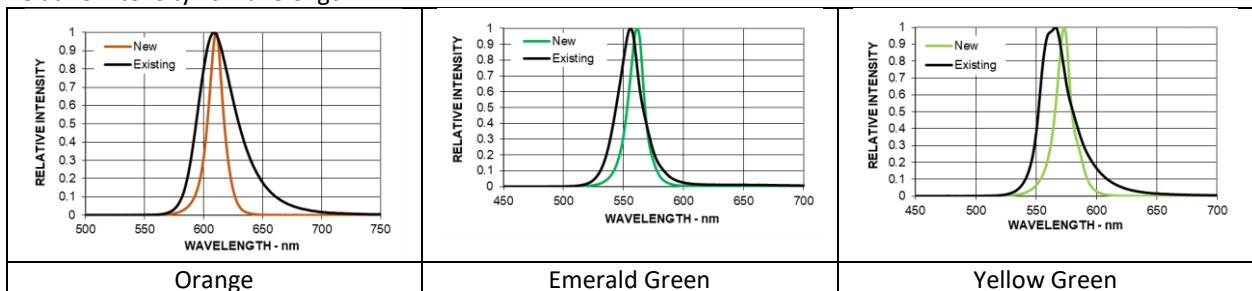
Forward current vs forward voltage

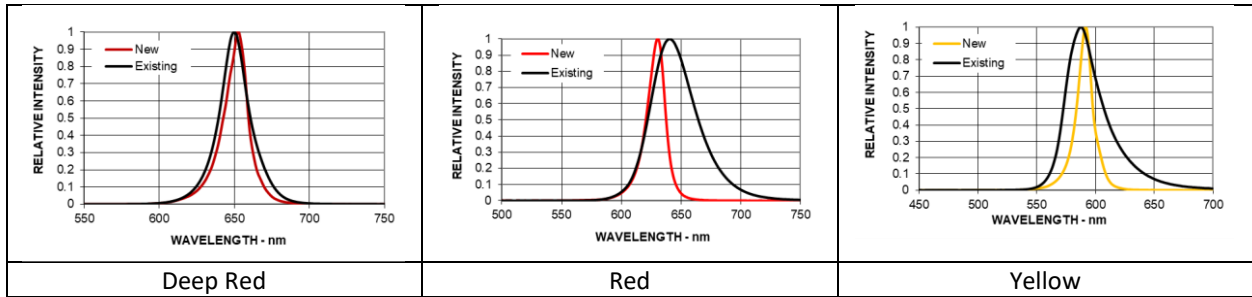


Relative intensity vs forward current

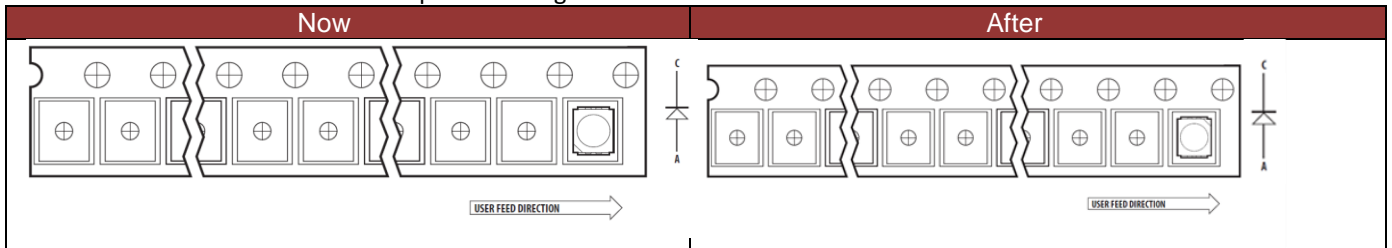


Relative intensity vs wavelength

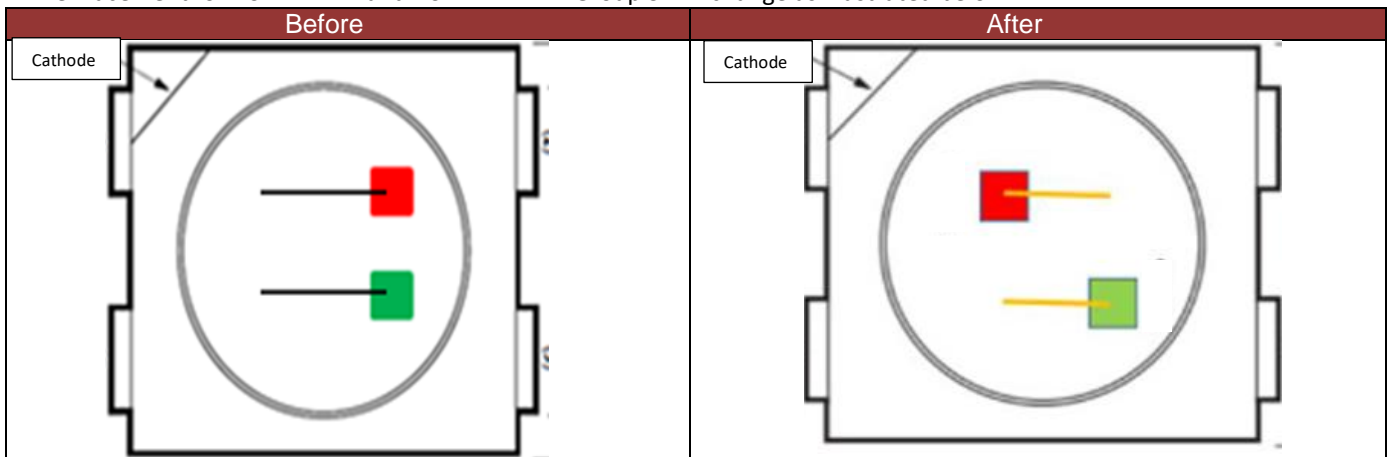




3. Orientation for HxMH-A100 in Group 2 will change as illustrated below:



4. Die Placement for HSMF-A211 and HSMF-A212 in Group 3 will change as illustrated below:

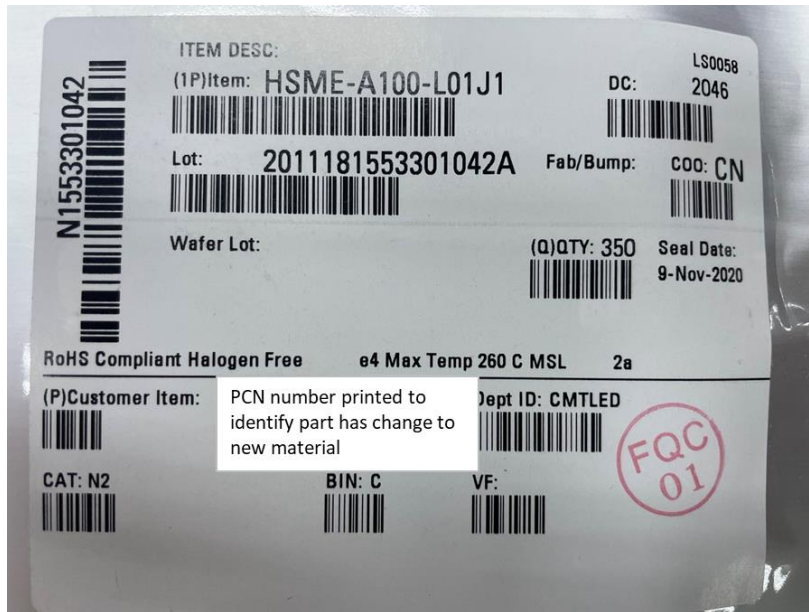


**Effective Date of Change:**

Parts with above change will commence 90 days after issuance date above. Broadcom will continue ship parts with current lead frame and die sources after implementation date until inventories are fully depleted.

Parts identification:

PCN number identification will be printed on the mother label to identify the lot has changed to new material as indicated below.

**Qualification Data:**

No change in reliability performance. Product and qualification data will be available upon request.

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Please contact your Broadcom field sales engineer or Contact Center for any questions or support requirements. Please acknowledge the receipt of the notice within 30 days of delivery. Lack of acknowledgement within 30 days constitutes acceptance of the change per JEDEC J-STD-046.