

Product Change Notice

Date: 13th Sep 2007

Change Type:

Avago Technologies has qualified an alternate manufacturing site in China for C170, C150, C190 and C191 Chipleds.

Parts Affected:

HSMA-C150	HSMH-C170	HSME-C191	HSMR-C191-J00L5
HSMB-C150	HSMH-C171	HSMG-C190	HSMR-C191-K00L5
HSMC-C150	HSML-C170	HSMG-C190-000C1	HSMR-C191-KMPL5
HSMD-C150	HSMH-C170	HSMG-C191	HSMR-C191-L00L5
HSME-C150	HSMN-C170	HSMG-C191-LLV00	HSMR-C191-LMPL5
HSMG-C150	HSMN-C171	HSMH-C190	HSMS-C190
HSMG-C151	HSMQ-C170	HSMH-C190-000C1	HSMS-C191
HSMH-C150	HSMR-C170	HSMH-C191	HSMW-B191-MPQL5
HSMH-C151	HSMS-C170	HSML-C190	HSMW-C191
HSML-C150	HSMY-C170	HSML-C191	HSMW-C191-000L5
HSMH-C150	HSMY-C171	HSML-C191-PQ000	HSMY-C190
HSMN-C150	HSMZ-C170	HSMH-C190	HSMY-C191
HSMN-C151	QSMA-C179	HSMN-C190	HSMZ-C190
HSMQ-C150	QSMC-C178	HSMN-C191	HSMZ-C190-RT000
HSMR-C150	QSMC-C168	HSMN-C191-LMYL5	QSMA-C184
HSMS-C150	QSMC-C17A	HSMQ-C190	QSMA-C185
HSMS-C151	QSME-C165	HSMQ-C191	QSMA-C188
HSMY-C150	QSME-C166	HSMR-C190	QSMA-C189
HSMY-C151	QSME-C167	HSMR-C191	QSMA-C192
QSMC-C151	QSME-C168	QSMW-C186	QSMA-C194
QSMG-C159	QSME-C169	QSMW-C188	QSMA-C195
QSMH-C159	QSMG-C174	QSMW-C189	QSMA-C196
QSMR-C148	QSMH-C174	QSMW-C193	QSMA-C198
QSMN-C149	QSMR-C17A	QSMW-C195	QSMA-C199
HSMA-C170	QSMQ-C17A	QSMW-C196	QSMA-C19A
HSMB-C170	HSMB-C190	QSMW-C19A	QSMC-C184
HSMB-C172	HSMC-C190	QSMY-C188	QSMC-C186
HSMC-C170	HSMC-C191	QSMY-C189	QSMC-C188
HSMD-C170	HSMD-C190	QSMY-C198	QSMC-C189
HSME-C170	HSMD-C191	QSMZ-C199	QSMC-C192
HSMG-C170	HSME-C190	QSMW-C184	QSMC-C196
HSMG-C171	QSMC-C199	QSMN-C182	QSMC-C198

QSMD-C187	QSMG-C194	QSMR-C167	QSMN-C183
QSMD-C188	QSMG-C195	QSMR-C173	QSMN-C184
QSMD-C189	QSMG-C196	QSMR-C178	QSMN-C185
QSMD-C193	QSMG-C198	QSMR-C179	QSMN-C186
QSME-C184	QSMG-C199	QSMR-C182	QSMN-C187
QSME-C186	QSMG-C199	QSMR-C186-LMB00	QSMN-C188
QSME-C188	QSMG-C19A	QSMR-C186-LMC00	QSMN-C189
QSME-C189	QSMH-C188	QSMR-C186-MNB00	QSMN-C193
QSME-C193	QSMH-C189	QSMR-C186-MNC00	QSMN-C194
QSME-C194	QSMH-C194	QSMR-C188	QSMN-C195
QSME-C195	QSMH-C198	QSMR-C189	QSMN-C199
QSME-C198	QSML-C187	QSMR-C192	QSMQ-C188
QSME-C199	QSML-C188	QSMR-C193	QSMQ-C189
QSME-C19A	QSML-C189	QSMR-C198	QSMQ-C198
QSMG-C188	QSMN-C173	QSMS-C189	QSMQ-C199
QSMG-C189	QSMN-C180-LMQL5	QSMS-C198	QSMR-C163
QSMG-C193			

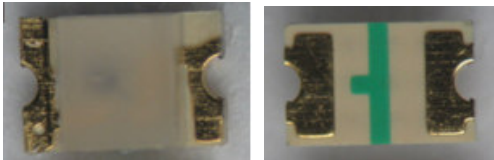
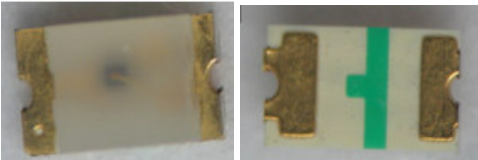
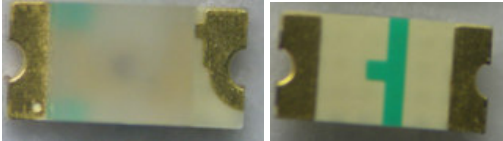
Additional Parts Affected:

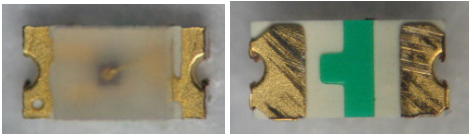
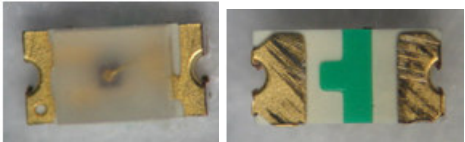
HSMA-C190	HSMA-C191	HSMB-C192	HSMG-C192
HSMH-C192	HSMN-C198	HSMW-B191	HSMW-C192
HSMY-C192	QSMH-C19B	QSMC-C19B	QSMN-C153
QSMQ-C194	QSMQ-C195	QSMR-C165	

Description and Extent of Change:

There will be no change of device functionality, specification and the electrical performance.

The selected manufacturing site has undergone an extensive selection process and deemed to be the best fit for the needs of the C170, C150, C190 and C191 chip LEDs. The pictures shown below are the appearance of LED from both manufacturing sites:

Package type	LED from existing site (Taiwan) * Bonding material: Aluminium wire	LED from new site (China) * Bonding material : Gold wire
C170		
C150		

Package type	LED from existing site (Taiwan) * Bonding material: Aluminium wire	LED from new site (China) * Bonding material : Gold wire
C190		
C191		

Reasons for Change:

To ensure continuity of supply

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

Qualification and characterization has been conducted to ensure acceptable performance.

The LEDs from new manufacturing site show its performance is comparable to the existing LEDs.

Effective Date of Change:

Avago Technologies will begin to ship LEDs from both new and existing manufacturing sites effective from 1st Sept 2007 onwards. Country of origin will be indicated on the moisture barrier bag for easy identification.

Qualification Data:

Qualification data has been generated and approved. It will be available upon request.

These changes have been reviewed and approved by Avago Technologies engineers and managers per Avago Technologies procedure: Change Control and Customer Notification, A-5962-6052-80.

Please contact your Avago Technologies field sales engineer or Contact Center (<http://www.avagotech.com/contact/>) for any questions or support requirements. Please return any response as soon as possible, but not to exceed 30 days.