



PCN: V06-020-48475415-0A

Product Change Notice

Issue Date: 10 October 2006

1. Change Type:

Avago Technologies has qualified alternate dice for InGaN in Lamp Package.

2. Parts Affected:

HLMP-CB15-XXXX	HLMP-HB55-XXXX	QLMP-CB85-XXXX	HLMP-CW15-XXXX
HLMP-CB16-XXXX	HLMP-HM54-XXXX	QLMP-CM89-XXXX	HLMP-CW16-XXXX
HLMP-CB30-XXXX	HLMP-HM55-XXXX	QLMP-LB91-XXXX	HLMP-CW23-XXXX
HLMP-CB31-XXXX	HLMP-LB11-XXXX	QLMP-LB98-XXXX	HLMP-CW24-XXXX
HLMP-CM15-XXXX	HLMP-LB15-XXXX	QLMP-LB99-XXXX	HLMP-CW30-XXXX
HLMP-CM16-XXXX	HLMP-LM11-XXXX	QLMP-LM98-XXXX	HLMP-CW31-XXXX
HLMP-CM30-XXXX	HLMP-LM15-XXXX	QLMP-LM99-XXXX	HLMP-CW70-XXXX
HLMP-CM31-XXXX	QLMP-AB48-XXXX	QLMP-LM91-XXXX	HLMP-CW72-XXXX
HLMP-HB54-XXXX	QLMP-AM49-XXXX	HLMP-FW00-XXXX	HLMP-KW50-XXXX
HLMP-LW15-XXXX	QLMP-CW71-XXXX	QLMP-CW97-XXXX	QLMP-CW98-XXXX
QLMP-CW99-XXXX	HLMP-FB00-XXXX	HLMP-FB00-XXXX	HLMP-FM00-XXXX

3. Description and Extent of Change:

The selected dice shall be the alternate choice for InGaN which will serve the same functionality as the existing dice.

4. Reasons for Change:

To ensure continuity of supply to the existing Lamp.

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

There is no change of fit, form and function as per datasheet. Qualification and characterization has been conducted with the new dice to ensure the performance. As results, the alternate dice shows that it is comparable to the existing dice.

6. Effective Date of Change:

The shipment of alternate dice source will begin from 9 January 07 onwards.



7. Qualification Data:

No	Test Type	Stress Condition	Test Condition	Sample Size/Cell	Test Point	Decision Point	Result
1	1TTW-TMCL (T&R form)	-40/120°C, 30minutes dwell, 5minutes transfer	HT	500	20x, 100x, 200x, 300x, 500x, 1000x	100x	PASSED
2	1SH-TMCL		ET @ 20mA	56		100x	PASSED
3	HTOL1	55°C If=30mA		28	24, 168, 336, 500, 1000 hrs	1000 hrs	PASSED
4	HTOL2	85°C If=10mA		28		1000 hrs	PASSED
5	RTOL	25°C If=30mA		28		1000 hrs	PASSED
6	LTOL	-40°C If=30mA		28		1000 hrs	PASSED
7	WHTOL	85°C/85%RH If=10mA		28		1000 hrs	PASSED
8	Pulse HTOL	55°C, Peak current 100mA, freq 1kHz, 10%DF	ET @ 20mA	28	24,168, 336, 500, 1000 hrs	1000 hrs	PASSED
9	HTSL	125°C (JIS C 7021 B-12)		28		1000 hrs	PASSED
10	LTSL	-40°C (JIS C 7021 B-12)		28		1000 hrs	PASSED
11	WHTSL	85°C/85%RH		28		1000 hrs	PASSED
12	SHR	260°C, 10 sec (JIS C 7021 A-1)	HT	10	2x	2x	PASSED

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