



V13-001-SD475420-0A

Product Change Notice

Issue Date: 25th January 2013

Please be informed that Avago Technologies is making the following product changes on PLCC LEDs listed below:

Change Type:

Introduction of an alternate LED die source for PLCC LED part numbers.

Parts Affected:

HSMA-A101-S00J1	HSML-A101-S00J1	HSMA-A160-S7WJ1	HSML-A101-S4WJ1	QSMC-A148-Q8JJ1
HSMA-A101-S3WJ1	HSMZ-A100-R00J1	HSMA-A161-S7WJ1	HSML-A161-S4WJ1	QSMC-A151-Q70J1
HSMC-A100-Q70J1	HSMZ-A100-T00J1	HSMA-A401-U7VM1	QSMA-A100-P5PJ2	QSMC-A151-S00J1
HSMC-A100-R20J1	HSMZ-A100-T70J1	HSMC-A100-Q30J1	QSMA-A161-S7WJ1	QSMC-A161-S00J1
HSMC-A101-S00J1	HSMA-A100-Q0PJ1	HSMC-A401-U30M1	QSMA-A162-S7WJ1	QSME-A115-N82J1
HSMC-A101-S30J1	HSMA-A100-R2WJ1	HSME-A100-P32J1	QSMA-A172-R2WJ1	
HSMC-A101-S40J1	HSMA-A160-Q00J1	HSML-A101-S40J1	QSMC-A145-S30J1	

Description and Extent of Change:

The selected LED die source had undergone Avago Technologies's qualification process and is deemed suitable as alternate LED die source for PLCC LEDs.

Reasons for Change:

To ensure continuity of supply for part numbers.

Effect of Change on Fit, Form and Function

There is no effect on fit and function as per datasheet. Qualification and characterization have been conducted to ensure both current and alternate LED die source are comparable.

Effective Date of Change:

The shipment of alternate LED die source PLCC2 and PLCC 4 will begin on 25th February 2013. Alternate and current die source can be shipped in the same shipment.



Qualification Data:

PLCC 2

Test Name	MIL-STD/JEDEC Reference	Test Conditions	Units Tested	Units Failed
Temperature Cycle	Avago Req	-55°C/100°C, 15 min dwell, 5 min transfer, 1000 cycles	600	0
Temperature Humidity Storage Life	Avago Req	T _a = 85°C, RH = 85%RH, 1000hrs	336	0
Temperature Humidity Operating Life	JESD22-A101	T _a = 85°C, RH = 85%RH, (AlInGaP) 16mA, 1000hrs	336	0
Temperature Humidity Operating Life	JESD22-A101	T _a = 85°C, RH = 85%RH, (InGaN) 13mA, 1000hrs	336	0
High Temperature Operating Life	JESD22-A108	(AlInGaP) T _a = 70°C, 26mA, 1000hrs	336	0
High Temperature Operating Life	JESD22-A108	(InGaN) T _a = 70°C, 16mA, 1000hrs	336	0
Temperature Humidity Reverse Bias	Avago Req.	T _A = 85°C, 85%RH, V _r = 4V for 1000 hours	96	0

PLCC 4

Test Name	MIL-STD/JEDEC Reference	Test Conditions	Units Tested	Units Failed
Temperature Cycle	Avago Req	-40°C/100°C, 15 min dwell, 5 min transfer, 1000 cycles	600	0
Temperature Humidity Storage Life	Avago Req	T _a = 85°C, RH = 85%RH, 1000hrs	336	0
Temperature Humidity Operating Life	JESD22-A101	T _a = 85°C, RH = 85%RH, (AlInGaP) 22mA, 1000hrs	336	0
Temperature Humidity Operating Life	JESD22-A101	T _a = 85°C, RH = 85%RH, (InGaN) 16mA, 1000hrs	336	0
High Temperature Operating Life	JESD22-A108	(AlInGaP) T _a = 55°C, 49mA, 1000hrs	336	0
High Temperature Operating Life	JESD22-A108	(InGaN) T _a = 70°C, 22mA, 1000hrs	336	0
Temperature Humidity Reverse Bias	Avago Req.	T _A = 85°C, 85%RH, V _r = 4V for 1000 hours	96	0

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.