



PCN: V09-004-SD475420-0A

Product Change Notice

Issue Date: 10th December 2009

Change Type:

MAJOR CHANGE

Please be advised that Avago Technologies is making the following product change on the effective date noted for the products listed below:

1. Cosmetic change: Convert from black surface coating to without black surface coating.

Parts Affected:

The products affected by the change are:

HSMF-A341-A00J1

HSMF-A355-G33J1

QSMF-A365-L99J1

Description and Extent of Change:

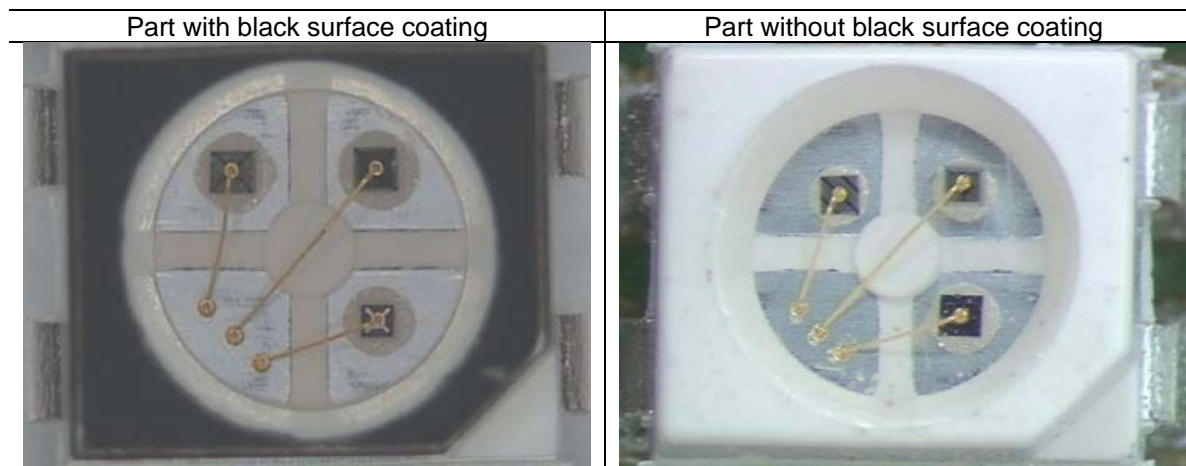
1. Products convert from black surface coating to without black surface coating.

Reasons for Change:

1. To standardize PLCC 4 Tricolor LED surface coating for assurance of supply.

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

There is no change on fit and function. There will be change in form due to the change from black surface coating to without black surface coating. The surface appearance difference shown below.



Effective Date of Change:

Effective from 11th January 2010, shipments will be with white surface. There may be mixed shipments between new and existing part until the current inventory is fully depleted.

Qualification Data:

Test	Reference	Sample Size	Decision Point	Result
Temperature Cycling -55/100°C 15/5/15min	Avago Req.	168	1000x	Pass
Humidity Power Temperature Cycling 25/65°C, 95%RH, 3/6/3hrs, 5min On, 5min Off, If=30mA (AlInGaP), If=16mA (InGaN)	Avago Req.	84	100x	Pass
Temperature Humidity Storage Life Ta=85°C, 85%RH	Avago Req.	168	1000hrs	Pass
Temperature Humidity Operating Life Ta=85°C, 85%RH, If=18mA (AlInGaP), If=9mA (InGaN)	JESD22-A101	168	1000hrs	Pass
Temperature Humidity Reverse Bias Ta=85°C, 85%RH, Vr=5V	Avago Req.	96	1000hrs	Pass
High Temperature Operating Life Ta=55°C, If=30mA (AlInGaP), If=18mA (InGaN)	JESD22-A108	168	1000hrs	Pass
High Temperature Storage Ta=100°C	JESD 22-A103	84	1000hrs	Pass
Low Temperature Storage Ta=-40°C	JESD22-A119	84	1000hrs	Pass
Low Temperature Operating Life Ta=-40°C, If=30mA (AlInGaP), If=20mA (InGaN)	JESD22-A108	84	1000hrs	Pass
Resistance to Soldering Heat 260°C for 10 sec	JESD 22-B106	30	2x	Pass

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.