

Product Change Notice

Issue Date: 27 September 2007

Change Type:

Introduction of new source of lead frame and process standardization between existing and new lead frame for flat top PLCC4.

Parts Affected:

ASMC-PAB9-TV005	HSMJ-A401-U40M1	HSMW-A400-T00M2	QSMC-PHG2-TW005
ASMC-PHB9-TW005	HSMK-A400-S7CM2	HSMW-A400-T70M2	QSMC-PHM1-TW005
ASMC-PRB9-TV005	HSMK-A400-T80M2	HSMW-A400-U00M2	QSMC-PHNE-TW005
ASMC-PRB9-TV305	HSMK-A401-R40M2	HSMW-A400-U30M2	QSMC-PHV1-TW205
ASMC-PRB9-TV605	HSML-A401-U40M1	HSMW-A400-U40M2	QSMC-PRF1-TV305
ASMC-PRB9-TV805	HSML-A401-U4YM1	HSMW-A400-U70M2	QSMC-PRG1-TV005
HSMA-A400-T35M1	HSML-A401-U8PM1	HSMW-A400-U71M2	QSMC-PRG2-TV005
HSMA-A401-U20M1	HSMM-A400-T80M2	HSMZ-A400-U80M1	QSMJ-A427-U30M1
HSMA-A401-U45M1	HSMM-A400-T8YM2	HSMZ-A400-V30M1	QSML-A420-U4PM1
HSMA-A401-U80M1	HSMM-A400-U4PM2	QSMA-A427-T2WM1	QSMM-A416-U3YM2
HSMA-A401-V30M1	HSMM-A400-U4WM2	QSMA-A428-U85M1	QSMN-A423-S4PM2
HSMA-A401-V3WM1	HSMM-A401-R7YM2	QSMA-A429-U2JM1	QSMN-A449-R4YM2
HSMA-A411-U45M1	HSMM-A401-S4YM2	QSMA-A441-V7QM1	QSMN-A498-Q9YM2
HSMA-A411-U4PM1	HSMM-A401-S70M2	QSMA-A499-U2WM1	QSMV-A427-W30M1
HSMC-A400-S30M1	HSMM-A401-S7YM2	QSMC-A449-S3JM1	QSMV-A429-W2JM1
HSMC-A401-T40M1	HSMN-A400-Q8QM2	QSMC-PAB9-TV3C5	QSMV-A429-W3JM1
HSMC-A401-T60M1	HSMN-A400-R8PM2	QSMC-PAG1-TV005	QSMW-A418-U4MM2
HSMC-A401-T80M1	HSMN-A401-P4QM2	QSMC-PAG1-TV3C5	QSMW-A420-T70M2
HSME-A401-P4PM1	HSMN-A401-P7QM2	QSMC-PAG2-TV005	
HSMJ-A401-T40M1	HSMU-A400-U85M1	QSMC-PAGR-TV7N5	
HSMJ-A401-T80M1	HSMV-A400-U80M1	QSMC-PHG1-TW005	

Description and Extent of Change:

In order to assure the supportability and delivery to customers, Avago has qualified a new source of lead frame. At the same time, Avago has changed the process configuration of the existing lead frame to be similar to new lead frame for standardization.

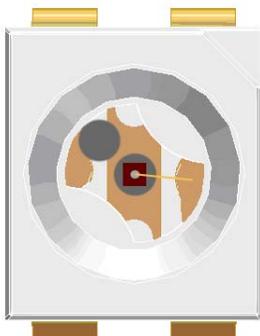
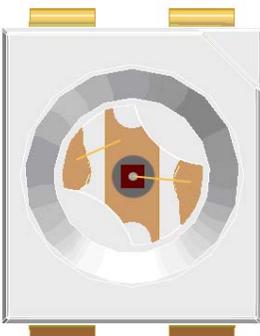
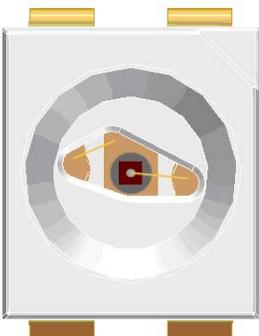
Reasons for Change:

This change is to ensure consistency of supply and on-time delivery to customer.

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

There is no change of fit, function and reliability.

However, there are differences in internal layout and terminal finish as shown below:

	Existing Lead Frame with existing configuration	Existing Lead Frame with new configuration	New Lead Frame
Lead frame layout			
Terminal finish	Pure tin (Sn)	Pure tin (Sn)	Silver (Ag)
Country of origin	Malaysia	Malaysia	Taiwan

Effective Date of Change:

Shipments of product using existing lead frame with new configuration and product with new lead frame source will commence on 27th of October 2007. There will be no shipments of product using existing lead frame with existing configuration from 27th of October 2007 onwards.

There will be no mix of existing and new lead frame source within the same reel. During the first 90 days of PCN issue date, there will be no mix of existing and new lead frame source within the same shipment. After which, different sources can be shipped in the same shipment and this can be identified from Country of Origin on the baby label on the reel and mother label on the Moisture Barrier Bag (MBB).

Qualification Data:

Item	Test Type	Stress Condition	Result
1	Room temperature operating life test	Ta = 25°C	Passed
2	High temperature operating life test	Ta = 100°C	Passed
3	Low temperature operating life test	Ta = -40°C	Passed
4	High temp. & high humidity life test	Ta = 85°C, RH = 85%	Passed
5	High temperature storage life test	Ta = 100°C	Passed
6	Low temperature storage life test	Ta = -40°C	Passed
7	High temp. & high humidity storage test	Ta = 85°C, RH = 85%	Passed
8	Temperature cycling test	-55°C to 100°C, 15 5 15 min	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 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.