

PCN-147945

Product Change Notice

Issue Date: 24-March-2021

Change Description:

Change of leadframe for ASMB-LTx2 and ASMB-LTx3

Parts Affected:

ASMB-LTB2-0A333
ASMB-LTB3-0C3F3
ASMB-LTC2-0A335
ASMB-LTC3-0D335
ASMB-LTD2-0A333
ASMB-LTD3-0C3F3
QSMB-LTB2-0A333
Q1MB-LTD2-0A333

Description and Extent of Change:

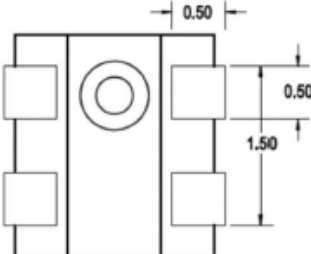
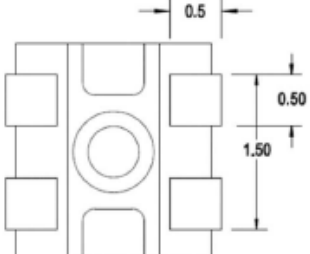
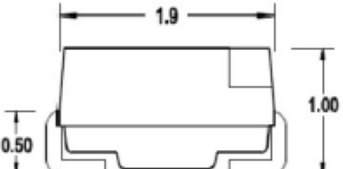
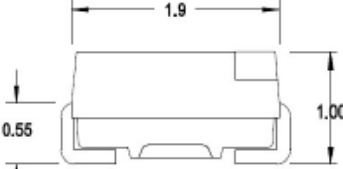
The new leadframe will replace the old leadframe for all the part numbers listed above

Reasons for Change:

Discontinuation of current leadframe supply.

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

There will be no change in the function of the products. The changes in the fit and form of the final products are as illustrated below. Qualification and characterization have been conducted to ensure the quality and reliability of the final products are maintained.

	Existing Leadframe	New Leadframe
Back view		
Side view		

Effective Date of Change:

Product shipments with the above change will commence 90 days after the issuance date above. The shipment may contain both new and old leadframes until the old leadframes are fully depleted.

Qualification Data:

Qualification Data has been generated and approved. Please refer to the table below.

Table 1: Reliability Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
High Temperature Operating Life	JESD22-A108	$T_A = 85^{\circ}\text{C}$, AlInGaP Red : $I_F = 8\text{ mA}$ for 1000 hours InGaN Green : $I_F = 6\text{ mA}$ for 1000 hours InGaN Blue : $I_F = 6\text{ mA}$ for 1000 hours	56	0
Temperature Humidity Operating Life	JEITA ED-4701/100 102	$T_A = 60^{\circ}\text{C}$, 90% RH, AlInGaP Red : $I_F = 17\text{ mA}$ for 500 hours InGaN Green : $I_F = 11\text{ mA}$ for 500 hours InGaN Blue : $I_F = 11\text{ mA}$ for 500 hours	56	0
Temperature Cycle	JESD22-A104	$-40^{\circ}/100^{\circ}\text{C}$, 30-minute dwell, 5-minute transfer, 100 cycles	336	0
Temperature Humidity Storage Life	JEITA ED-4701/ 100 103	$T_A = 60^{\circ}\text{C}$, 90% RH for 1000 hours	56	0
Solderability	J-STD-002	245°C for 5 seconds	28	0

NOTE: A failure is any LED that is open or shorted or that failed to emit light (except for the solderability test).

Please contact your Broadcom field sales engineer or Contact Center for any questions or support requirements.
Please return any response as soon as possible, but not to exceed 30 days.

