

## ASMT-UxB5-xxxxx

### PLCC-2 Surface Mount LED Indicator

### Description

Broadcom tests parts at the absolute maximum rated conditions recommended for the device. The actual performance that you obtain from Broadcom<sup>®</sup> parts depends on the electrical and environmental characteristics of your application, but will probably be better than the performance outlined in the table.

**Table 1: Reliability Tests**

Test Name	Reference	Test Conditions	Units Tested	Units Failed
High Temperature Operating Life	JESD22-A108	$T_A = 85^\circ\text{C}$ , $I_F = 13\text{ mA}$ for 1000 hours	56	0
Low Temperature Operating Life	JESD22-A108	$T_A = -40^\circ\text{C}$ , $I_F = 30\text{ mA}$ for 1000 hours	56	0
Temperature Humidity Operating Life	JEITA ED-4701/100 102	$T_A = 85^\circ\text{C}$ , 85% RH, $I_F = 13\text{ mA}$ for 500 hours	56	0
Temperature Cycle	JESD22-A104	$-40^\circ\text{C}/100^\circ\text{C}$ , 15-minute dwell, 5-minute transfer, 100 cycles	336	0
High Temperature Storage Life	JESD22-A103	$T_A = 100^\circ\text{C}$ for 1000 hours	56	0
Low Temperature Storage	JESD22-A119	$T_A = -40^\circ\text{C}$ for 1000 hours	56	0
Temperature Humidity Storage Life	JEITA ED-4701/100 103	$T_A = 85^\circ\text{C}$ , 85% RH for 1000 hours	56	0
Pulse Test	JESD22-A108	$T_A = 25^\circ\text{C}$ , frequency = 1 kHz, peak current = 100 mA, duty factor = 10% for 1000 hours	56	0
Solderability	J-STD-002	$245^\circ\text{C}$ 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).

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