

ASMT-UWA1, ASMT-UWA2, ASMT-UWB1, ASMT-UWB2

OneWhite Surface Mount PLCC-2 LED Indicator

Description

The following cumulative test results have been obtained from testing performed at Broadcom in accordance with JEDEC.

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

Table 1: Environmental Tests and Other Tests

Test Name	Reference	Test Conditions	Units Tested ^a	Units Failed ^b
Temperature Cycle	JESD22-A104	–40°C/100°C, 30 minutes dwell, 5 minute transfer, 100 cycles	2632	0
Low Temperature Operating Life	JESD22-A108	T _A = –40°C, I _F = 30 mA for 1000 hours	84	0
High Temperature Operating Life	JESD22-A108	T _A = 55°C, I _F = 30 mA for 1000 hours	280	0
Temperature Humidity Operating Life	JESD22-A101	T _A = 60°C/90% RH, I _F = 23 mA for 1000 hours	728	0
Room Temperature Operating Life	JESD22-A108	T _A = 25°C, I _F = 30 mA for 1000 hours	84	0
Temperature Humidity Storage Life	JESD22-A101	T _A = 60°C/90% RH for 1000 hours	392	0
Low Temperature Storage	JESD22-A103	T _A = –40°C for 1000 hours	84	0
High Temperature Storage	JESD22-A103	T _A = 100°C for 1000 hours	84	0
Solderability	JESD22-B102	245°C for 5 seconds	60	0
Mechanical Shock	JESD22-B104	5 shocks each X1, X2, Y1, Y2, Z1, Z2, 2900G, 0.3-ms pulse	30	0
Vibration	JESD22-B103	4 cycles, 4 minutes each X, Y, and Z at 0.06 in. at 20 Hz to 100 Hz, 50g at 100 Hz to 2000 Hz	30	0
Pulse Test	JESD22-A108	T _A = 25°C, Frequency = 1 kHz, 1000 hours, Peak current = 100 mA, Duty factor = 10%	84	0

a. Each reliability sample was subjected to pretreatment of moisture soak followed by reflow accordance to JEDEC standard before stress under reliability test listed in the previous table.

b. A failure is any LED that is open, shorted, or fails to emit light (except the solderability test).

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