AUV4-Sxx1

3W 3535 Surface-Mount UV LED

Description

Broadcom tests parts at the absolute maximum rated conditions recommended for the device. The actual performance that you obtain from Broadcom® 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°C, 385 nm and 395 nm I_F = 75 mA for 1000 hours 365 nm I_F = 60 mA for 1000 hours	40	0
Low Temperature Operating Life	JESD22-A108	T_A = –10°C, 385 nm and 395 nm: I_F = 700 mA for 1000 hours 365 nm: I_F = 500 mA for 1000 hours	40	0
Temperature Humidity Operating Life	JEITA ED-4701/ 100 102	T_A = 60°C, 90% RH, 385 nm and 395 nm: I_F = 450 mA for 500 hours 365 nm: I_F = 375 mA for 500 hours	40	0
Temperature Cycle	JESD22-A104	–40°/100°C, 30-minute dwell, 5-minute transfer, 100 cycles	336	0
High Temperature Storage Life	JESD22-A103	T_A = 100°C for 1000 hours	56	0
Low Temperature Storage	JESD22-A119	T_A = –40°C for 1000 hours	56	0
Temperature Humidity Storage Life	JEITA ED-4701/ 100 103	T_A = 60°C, 90% RH for 500 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).

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