

HDSP-H1x1/H1x3

1.0-in. Single-Digit PCB-Based LED Display

Description

The following cumulative test results have been obtained from testing performed at Broadcom[®] in accordance with the JEDEC standards.

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 the performance outlined in the following tables.

Table 1. Product Information

Red	Green	Yellow	Orange	AlGaAs Red	Description	
HDSP-H1E1	HDSP-H1G1	HDSP-H1Y1	HDSP-H1L1	HDSP-HC1A1	Common Anode, Right Hand Decimal	
HDSP-H1E3	HDSP-H1G3	HDSP-H1Y3	HDSP-H1L3	HDSP-H1A3	Common Cathode, Right Hand Decimal	

Table 2. Environmental Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
Temperature Cycle	Broadcom Req.	-40°C/85°C, 15 minutes dwell, 5 minutes transfer, 100 cycles	300	0
High Temperature High Humidity Operating Life	Broadcom Req.	85°C/85%, 5 mA, 500 hours	26	0
High Temperature High Humidity Storage Life	Broadcom Req.	85°C/85% RH, 500 hours	26	0
Low Temperature Operating Life	JESD22-A108	–40°C, 25 mA, 500 hours	26	0
High Temperature Operating Life	JESD22-A108	85°C, 5 mA, 500 hours	26	0

Table 3. Mechanical Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed
Mechanical shock	JESD22-B104	1500G for 0.5 ms, 5 shocks each ± X, Y, and Z	30	0
Solderability	JESD22-B102	245°C for 5 seconds	30	0
Marking Permanency	JESD22-B107	3× immersions /10 strokes, pass solution A and C	12	0
Drop test	Broadcom Req.	1.2m drop on ceramic, concrete or steel surface, 10× drop	30	0

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