

HSD6-C170 Top-View Surface-Mount Photodiode

Overview

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, V _R = 30V for 1000 hours	56	0
Low Temperature Operating Life	JESD22-A108	$T_{A} = -40^{\circ}C, V_{R} = 30V$ for 1000 hours	56	0
Temperature Humidity Operating Life	JEITA ED-4701/ 100 102	T _A = 60°C, RH = 90%, V _R = 5V for 500 hours	56	0
Temperature Cycle	JESD22-A104	–40°C/100°C, 15-minute dwell, 5-minute transfer, 100 cycles	252	0
High Temperature Storage Life	JESD22-A103	T _A = 100°C for 1000 hours	56	0
Low Temperature Storage Life	JESD22-A119	T _A = –40°C for 1000 hours	56	0
Temperature Humidity Storage Life	JEITA ED-4701/ 100 103	T _A = 60°C, RH = 90% for 1000 hours	56	0
Solderability	J-STD-002	245°C for 5 seconds	28	0

NOTE: A failure is any unit that is open, shorted, or that failed to generate photocurrent (except for the Solderability test).

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