HLMP-Y202-xxxxx

3mm Yellow GaAsP/GaP LED Lamps

Reliability Datasheet

Description

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

Avago tests parts at the absolute maximum rated conditions recommended for the device. The actual performance you obtain from Avago parts depends on the electrical and environmental characteristics of your application but will probably be better than the performance outlined in Table 1.

Table 1 Reliability Tests

Test Name	Reference	Test Conditions	Units Tested	Units Failed[a]
Temperature Cycle	JESD22-A104	–40 °C/100 °C, 15 min dwell, 5 min transfer, 100 cycles	336	0
High Temperature Operating Life	JESD22-A108	55 °C, 20 mA for 1000 hours	112	0
High Temperature Humidity Operating Life	JESD22-A101	85 °C, 85%RH, 8mA for 1000 hours	112	0
High Temperature Humidity Storage Life	Avago Req.	85 °C, 85%RH for 1000 hours	112	0
Resistance to Solder heat	JESD22-B106.	260 °C for 10 seconds	30	0
Solderability	JESD22-B102	245 °C for 5 seconds	30	0

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

DISCLAIMER: *Avago's products and software are not specifically designed, manufactured, or authorized for sale as parts, components, or assemblies for the planning, construction, maintenance, or direct operation of a nuclear facility or for use in medical devices or applications. The customer is solely responsible, and waives all rights to make claims against Avago or its suppliers, for all loss, damage, expense, or liability in connection with such use.*

AVAGO

TECHNOLOGIES

Lead (Pb) Free
RoHS 6 fully
compliant