HDSP-7xxX

17.3 mm (0.68 inch) General Purpose
5 x 7 Dot Matrix Alphanumeric Displays

Reliability Data Sheet

Description

The following cumulative test results have been obtained from testing performed in accordance with the latest revision of JEDEC Standard. The actual performance customer obtains from Avago parts depends on the electrical and environmental characteristics of application but will probably be better than the performance outlined in Table 1.

Table 1. Life Tests

Demonstrated Performance

						Point Typical Performance	
Colors	**Stress Test**	**Stress Test Conditions**	**Total Device Hrs**	**Units Tested**	**Units Failed**	**MTBF**	**Failure Rate (%/1K Hours)**
Green HER AlGaAs	Room Temperature Operating Life	Ta=25°C, If,Green=25mA If,HER=25mA If,AlGaAs=15mA	20,000	40	0	20,000	<5.00
Green HER AlGaAs	High Temperature Storage Life	Ta=+85°C	20,000	40	0	20,000	<5.00
Green HER AlGaAs	Low Temperature Storage Life	Ta=-40°C	20,000	40	0	20,000	<5.00
Green HER AlGaAs	Wet High Temperature Storage Life	Ta=+85°C R.H = 85%	20,000	40	0	20,000	<5.00

Table 2. Environmental Tests

Test	**Reference**	**Test Conditions**	**Units Tested**	**Unit Failed**
Temperature Cycle	JESD22-A104	-40/85°C 15 min dwell, 5min transfer, 100 cycles	2300	0
Solder Heat Resistance	JESD22-B106	260 °C, 10 sec	20	0
Solderability Test	JESD22-B102	8 hrs steam age, solder dip @ 245ºC, 5 seconds	20	0

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