

Product Change Notice

- **Product** : LH351H 660nm
- **P/N** : SPHRD2L3DH00D5W4M0
- **Change** : Change of substrate pattern

Aug. 2021

1. Overview

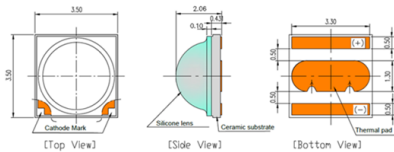
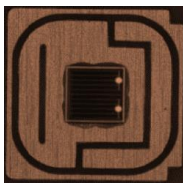
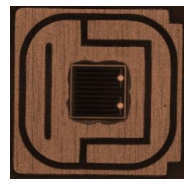
Samsung notice the change of substrate pattern.

With the change of substrate design,
Samsung provides same performance as current product.

Reliability is same as current product and you can use existing LM80 report.

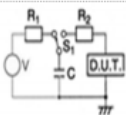
1. Overview

Change of substrate pattern

		Changes (Before vs. After)		Remark
Part Number		SPHRD2L3DH00D5W4M0	←	Same
Material	Substrate	Al ₂ O ₃	←	
Chip size		42mil × 42mil	←	
LED package size and appearance			←	
Biologically-Active Photon Flux		2.4μmol/s	←	
Radiant Power		390mW ~	←	
Substrate				Change of substrate pattern

2. Reliability

Passed all criteria of Samsung standards

Test Item	Test Condition	Test Hour / Cycle
High Temperature Life Test	85 °C, Maximum Rated Drive Current	1000 h
High Temperature Humidity Life Test	85 °C, 85 % R.H., Maximum Rated Drive Current	1000 h
Low Temperature Life Test	-40 °C, Maximum Rated Drive Current	1000 h
Temperature Cycling	-45 °C / 15 min ↔ 125 °C / 15 min temperature change within 5 min	500 cycles
High Temperature Storage	105 °C	1000 h
High Temperature Humidity Storage	85 °C, 85 % R.H	1000 h
ESD (HBM)	 <p>R₁: 10 MΩ R₂: 1.5 kΩ C: 100 pF V: ±8 kV</p>	5 times

Thank you