

23 May 2014

Dear Customer

We have been advised by Rohm that the current SML-P1xxTT86 & SML-P2xxTT86 series of LED's have been issued with a new suffix "R" after the "TT86" taping code. This denotes the resistive paint and change to the circuit structure device. In some case the ranks/bins also change/reduce which is important to note and offer an improved version to the older part.

Current Part Number	New Part Number
SML-P11DTT86	SML-P11DTT86R
SML-P11MTT86	SML-P11MTT86R
SML-P11UTT86	SML-P11UTT86R
SML-P11VTT86	SML-P11VTT86R
SML-P11YTT86	SML-P11YTT86R
SML-P12DTT86	SML-P12DTT86R
SML-P12MTT86	SML-P12MTT86R
SML-P12PTT86	SML-P12PTT86R
SML-P12UTT86	SML-P12UTT86R
SML-P12VTT86	SML-P12VTT86R
SML-P12YTT86	SML-P12YTT86R
SML-P24MUWT86	SML-P24MUWT86R

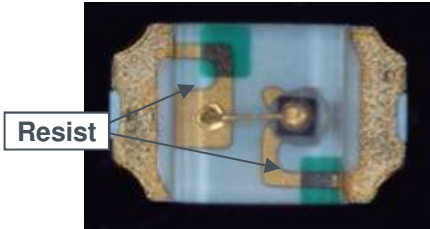
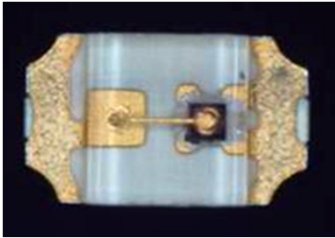
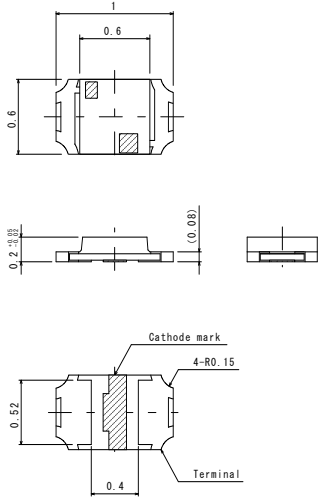
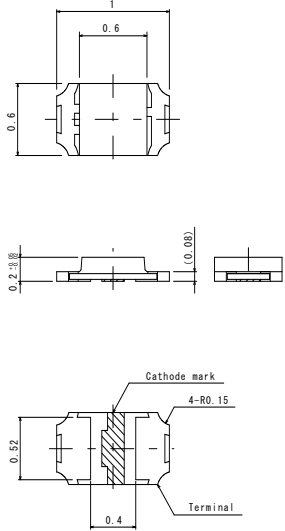
The old versions are still available but the new "R" versions are recommended for new designs, with samples of the new type can be made available for testing.

Further information about this change from Rohm can be found below.

Yours Sincerely

Anglia

Comparison Sheet (SML-P1x series)

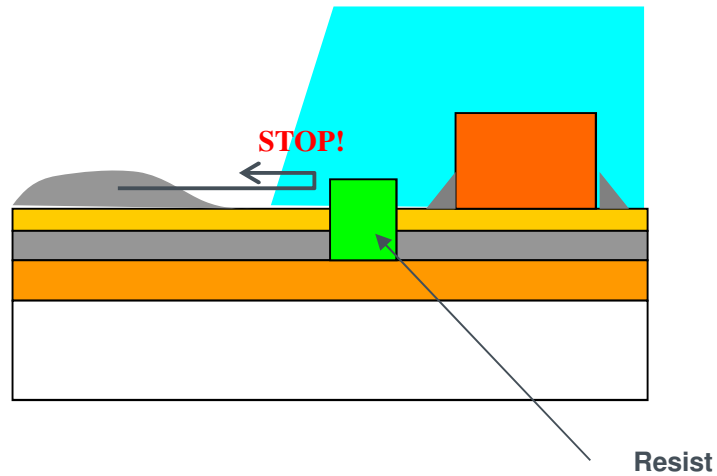
	Resist Type	Existing Type	Difference Point
Package size	1.0 × 0.6 × 0.20mm	1.0 × 0.6 × 0.20mm	non
Chip size	0.125 × 0.125 × 0.07mm	0.125 × 0.125 × 0.07mm	non
Resin	Epoxy Resin	Epoxy Resin	non
Resist	exist	non	There are Resist paints
Wire	φ20um	φ20um	non
Photo			Circuit structure in the package. (LED Die is shifted approx. 50 um to the center of package.)
Figure			non

The Difference point is only PCB (Resist paint and Circuit structure), therefore Quality and Characteristics are same.

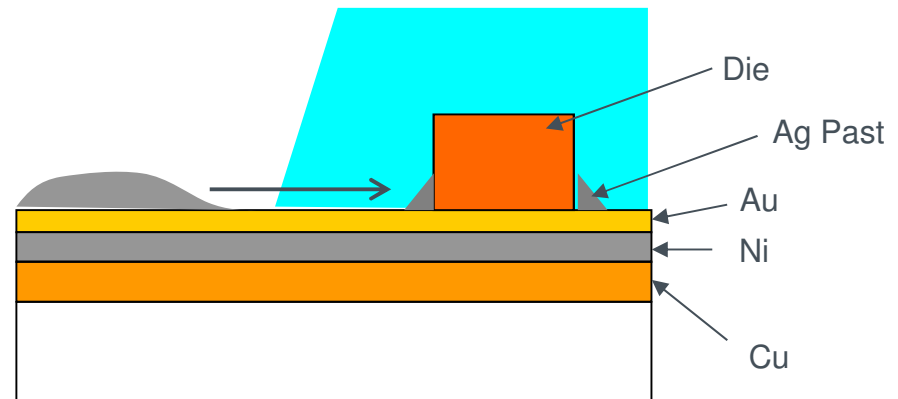
Resist PCB's Advantage

【 Comparison 】

Resist PCB



Non Resist PCB



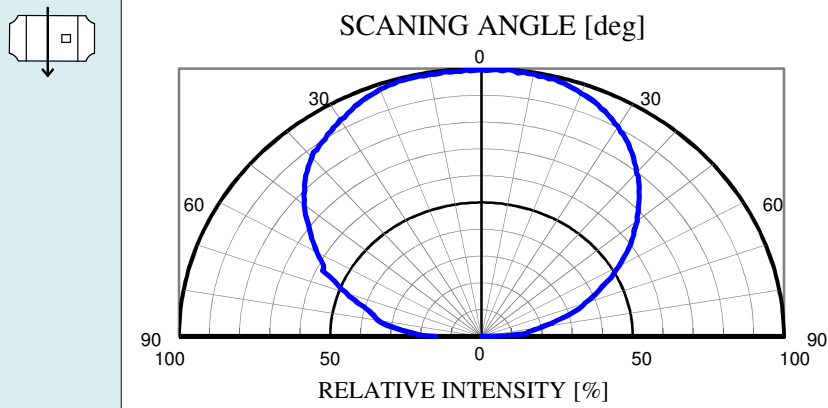
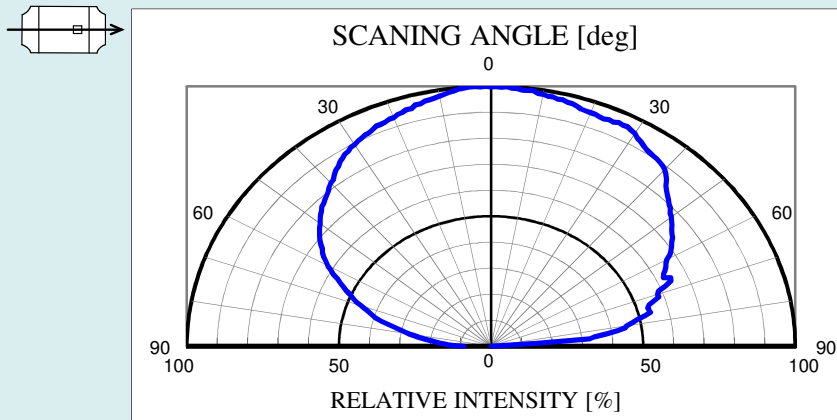
The Resist Paint can block “Into Soldering” from out of package. Because Resist shut out Au plate due to set in there(see above figure) before Au plating production.

Comparison Viewing angle

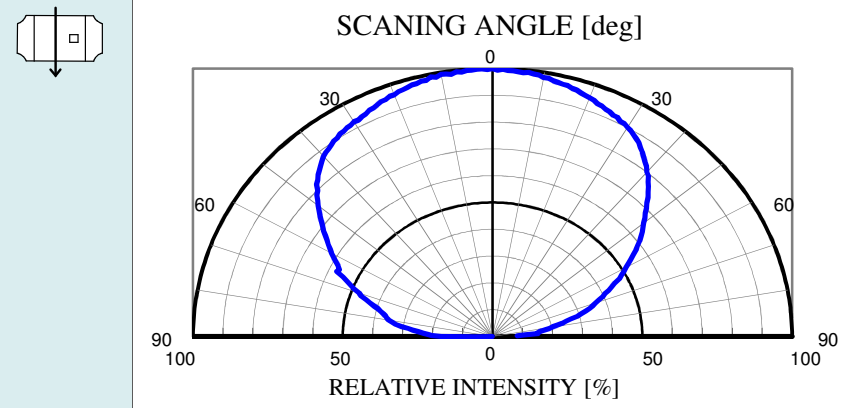
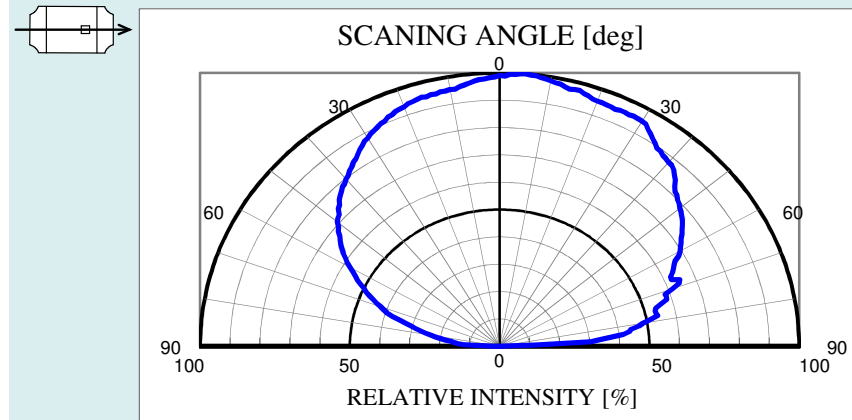
Reference

* This is standard data.

Resist LED



Existing LED



※There is NOT difference between Resist LED and Existing LED.

Comparison Characteristics

Reference data

* This is standard data.

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Resist LED

Ta=25°C, IF=20mA

Sample No.	Intensity Iv (mcd)	Color λ d (nm)
1	65.7	621.7
2	62.5	621.8
3	62.4	621.8
4	61.1	621.8
5	62.5	621.7
6	61.7	621.8
7	61.6	621.8
8	65.6	621.8
9	62.2	621.6
10	63.0	621.9
11	65.7	621.8
12	63.6	621.8
13	63.5	621.7
14	62.2	621.5
15	62.0	621.6
16	65.0	621.7
17	62.0	621.8
18	65.0	621.8
19	61.1	621.9
20	62.5	621.5
21	62.9	621.7
22	63.9	621.6
Min.	61.1	621.5
Typ.	63.08	621.73
Max.	65.7	621.9
σ	1.48	0.11

Existing LED

Ta=25°C, IF=20mA

Sample No.	Intensity Iv (mcd)	Color λ d (nm)
1	64.5	621.6
2	65.1	621.6
3	64.2	621.6
4	63.6	622.0
5	60.7	621.6
6	63.6	621.5
7	63.5	621.5
8	63.0	621.7
9	63.1	621.4
10	64.1	621.5
11	61.2	621.6
12	63.8	621.7
13	60.8	621.6
14	64.0	621.6
15	60.6	621.7
16	62.9	621.6
17	61.0	621.5
18	63.0	621.4
19	63.3	621.8
20	62.4	621.6
21	63.0	621.7
22	60.6	621.8
Min.	60.6	621.4
Typ.	62.81	621.62
Max.	65.1	622.0
σ	1.39	0.14

※These samples are produced same wafer (Red LED).

※ There is NOT difference between Resist LED and Existing LED.