



RODAN(TAIWAN)LTD.

VISIBLE LED

1.ELEMENT APPEARANCE

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DATE:2023.09.26

Model No.	Material	Lighting Color	Resin Color
RT-4014HR-CT	AlGaInP	Red	Water Clear

2.ABSOLUTE MAXIMUM RATINGS AT Ta=25°C

Characteristic	Symbol	Rating	Unit
Forward direct current	IFM	60	mA
Reverse voltage	VRM	5	V
Operating temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-40 to +100	°C
Power dissipation	Pd	0.4	W

3.ELECTRO-OPTICAL CHARACTERISTICS AT Ta=25°C

Characteristic	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous intensity	Iv	IF= 60mA	3		5	LM
Forward voltage	VF	IF= 60 mA	1.8		2.2	V
Reverse current	IR	VR=5V			10	μ A
Dominant wavelength	λ d	IF=60mA	660		670	nm
Viewing angle	2θ 1/2	IF=60 mA		120		deg.

* Measurement Uncertainty of Luminous Intensity : ±15%

* Measurement Uncertainty of Forward Voltage : ±0.05V

* Emission wavelength Measurement allowance is ±0.5nm

4.DIMENSIONS UNIT : m/m

SIGN : 1.CATHODE 2.ANODE

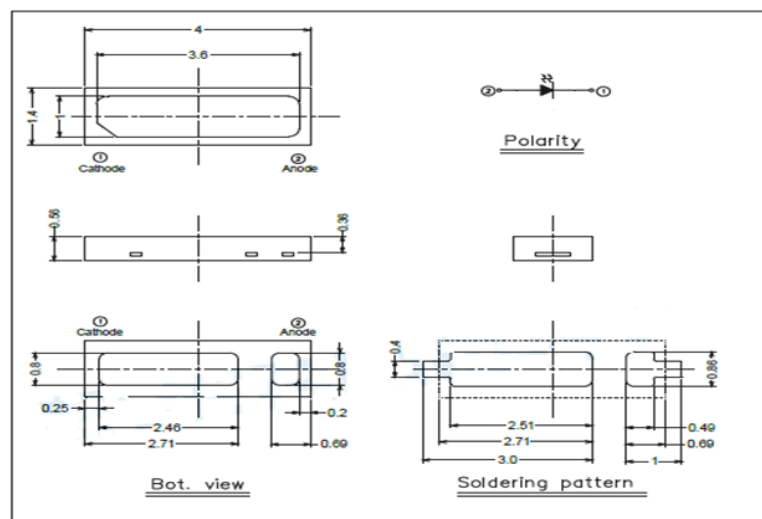
Tolerance is ±0.2mm unless otherwise specified.

Unit : mm

Tolerance are±0.2,unless note otherwise



Package Dimension





5. BIN

VF (V) IF=60mA		
BIN	MIN	MAX
V2	1.8	2.2

※ VF 誤差值 $\pm 0.05V$

IV (LM) IF=60mA		
BIN	MIN	MAX
BIN2	3	5

※ IV 誤差值 $\pm 15\%$

λd (IF=60mA)		
BIN	MIN	MAX
R1	660	665
R2	665	670

BIN.別標示如下：

RODAN (TAIWAN) LED.

TYPE	
LOT. NO.	
QUANTITY	
DATE	
NOTE	IV___ VF___ λd ___



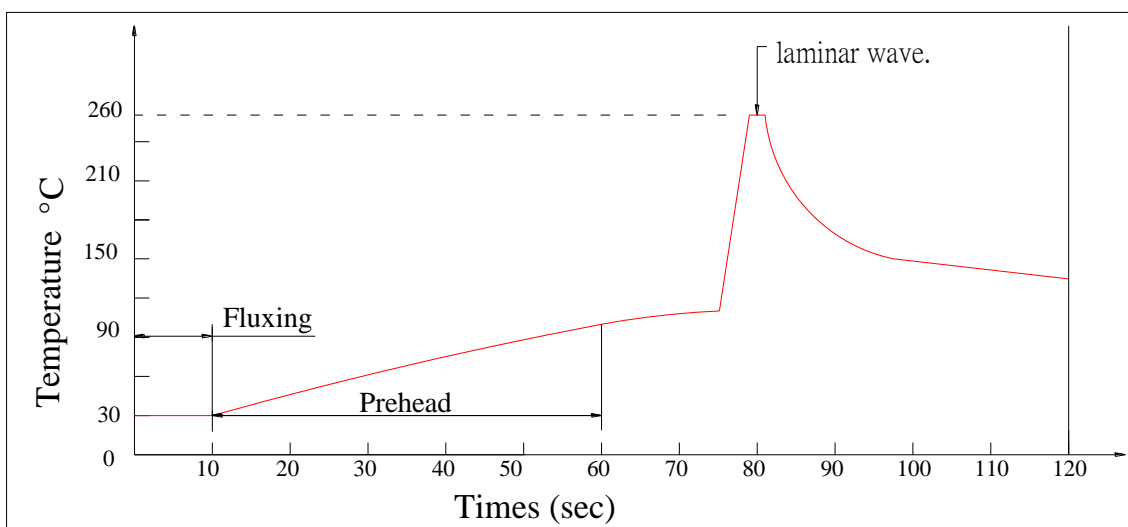
Soldering Profile

Compliant with the following condition :

(1) Leaded quantity of product below 100 ppm

(2) Lead-free process

Shape	Lead Frame Type
Hand soldering	1.Temp.at tip of iron : 300 °C max.(30W max.) 2.Soldering time : 3 sec max. 3.Distance : 3 mm MIN (from solder joint to case)
DIP soldering	1.Preheat temp : 100 °C max , 60 sec max. 2.Bath temp : 260 °C max. 3.Bath time : 3 sec max. 4.Distance : 3 mm MIN (From solder joint to case)
Recommended soldering profile	1.Preheat temp. : 100 °C , 50 sec max. 2.Peak temp. : 260 °C max. 3.Peak time : 3 sec max. 4.Duration above: 200°C , 3 sec max.



SMD Type		
Profile Feature	Solder : Lead-Free	Solder : Low Lead-Free
Preheat temp	150-180 °C , 4°C/sec max. 120 sec max.	130-170 °C , 4°C/sec max. 120 sec max.
Peak temp	245 °C max. , 5 sec max.	213 °C max. , 25 sec max.
Duration above	217 °C , 60 sec max.	200 °C , 40 sec max.

