



RODAN(TAIWAN)LTD.

VISIBLE LED

1.ELEMENT APPEARANCE

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Model No.	Material	Lighting Color	Resin Color
RT5-237VT-10	InGaN/GaN	UV	Water Clear

2.ABSOLUTE MAXIMUM RATINGS AT Ta=25°C

Characteristic	Symbol	Rating	Unit
Forward direct current	IFM	30	mA
Reverse voltage	VRM	5	V
Operating temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-40 to +100	°C
Power dissipation	Pd	114	mW

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

Characteristic	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous intensity	Iv	IF= 20 mA		350		mcd
Forward voltage	VF	IF= 20 mA		3.46	3.8	V
Reverse current	IR	VR=5V			10	µA
Peak emission wavelength	λp	IF=20mA	400	~	410	nm
Dominant wavelength	λd	IF=20mA		-		nm
Spectral line half width	Δλ	IF=20mA		15		nm
Viewing angle	2θ 1/2	IF=20mA		30		deg.

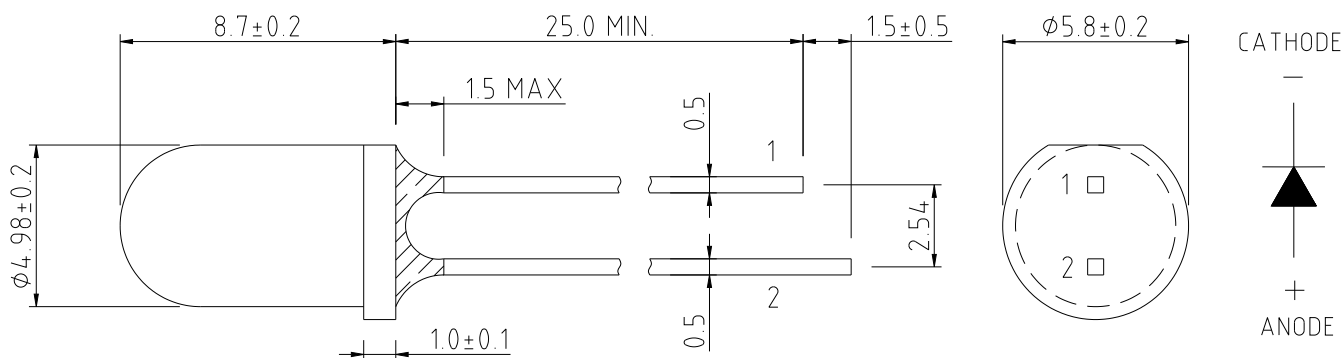
- ※ Luminous Intensity Measurement allowance is ±15%
- ※ Forward voltage Measurement allowance is ±0.05V
- ※ Emission wavelength Measurement allowance is ±0.5nm

4.DIMENSIONS UNIT : m/m

SIGN 1.CATHODE

Tolerance is ±0.2mm unless otherwise specified.

2.ANODE

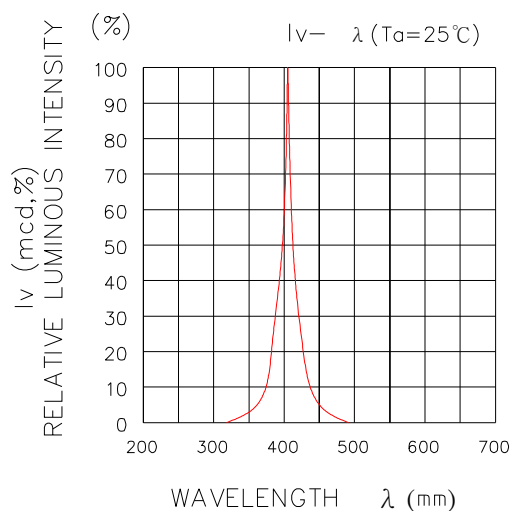
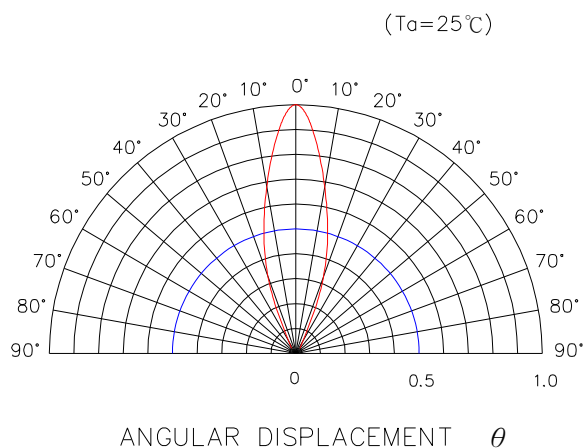
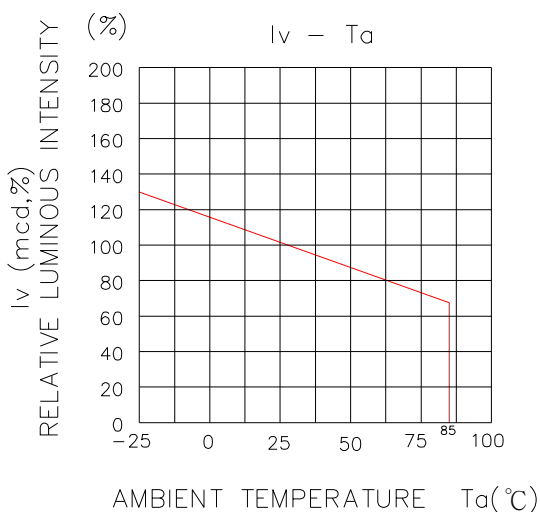
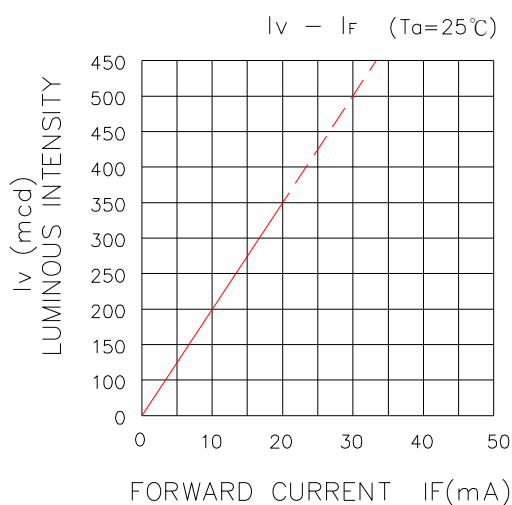
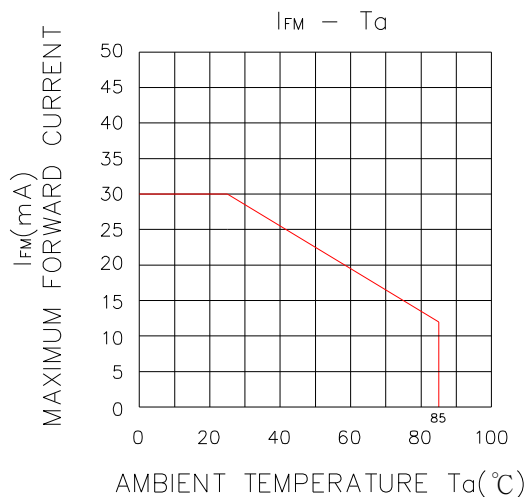
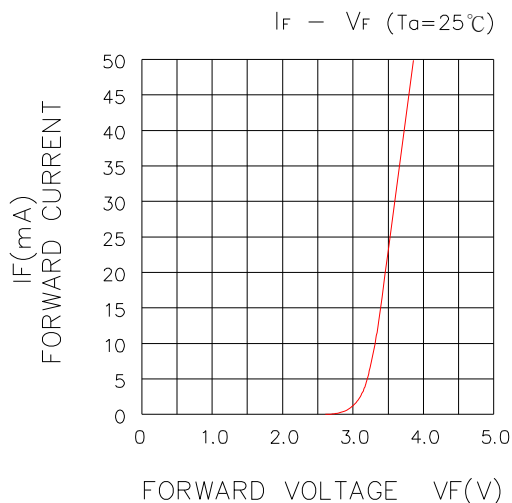




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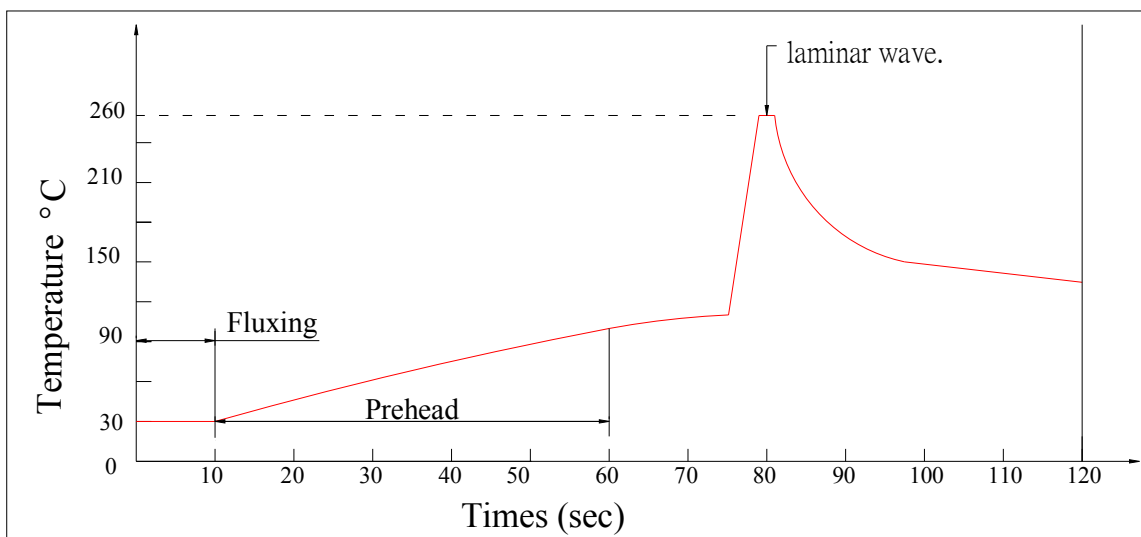


Soldering Profile

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.

