

RoHS **Compliant**

Features

- Reflow Solderable
- High Luminous Intensity and Low Power Dissipation
- Good Reliability and Long Life
- Lead Free

Applications

- Optical indicator
- Indoor display Backlighting in dashboard and switch
- Flat backlighting for LCD, symbol and display
- General use

Specifications

Dice material : AlGalnP **Emmiting Colour** : Green Lens colour : Clear

Electrical and Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур	Max	Units	Test conditions
Forward voltage	VF	1.7	-	2.3	V	IF=20mA
Reverse Current	IR	-	-	10	uA	VR=5V
Dominant wavelength	λd	567	-	577	nm	IF=20mA

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Units	
Power Dissipation	Pd	46	mW	
DC Forward Current	IF	20	mA	
Peak Forward Current [1]	IFP	75	mA	
Reverse Voltage	VR	5	V	
Electrostatic Discharge (HBM)	ESD	2000	V	
Operating Temperature	Topr	-40 to +85	°C	
Storage Temperature	Tstg	-40 to +100	°C	

Notes:

- 1. 1/10 Duty cycle,0.1ms pulse width.
- 2. Measurement Errors:Forward Voltage:±0.1V
- 3. The tolerance of wave length ±1nm

Selection Guide

Part Number	Chip materials	Lens Type	Luminou	Viewing Angle		
	materiais		Min	Тур	Max	201/2
MP008288	Green (AlGalnP)	Clear	30	-	90	120

Note:

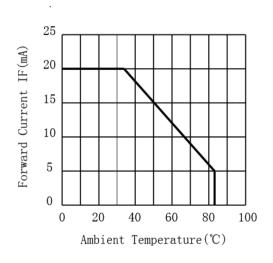
- 1. 201/2 is the angle from optical centerline where the luminous intensity is 201/2 the optical centerline value.
- 2. The above luminous intensity measurement allowance tolerance ±10%

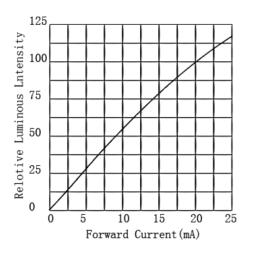
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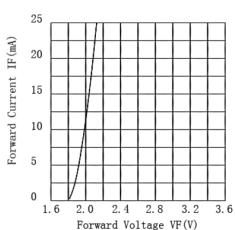


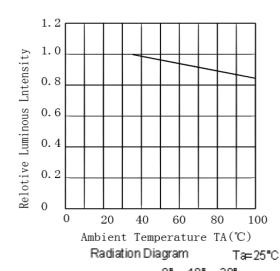
multicomp PRO

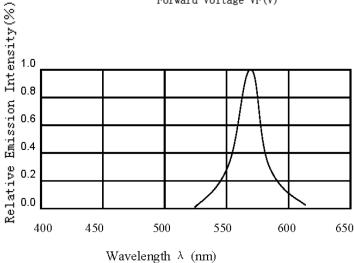
Typical optical characteristics curves

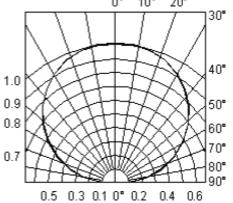










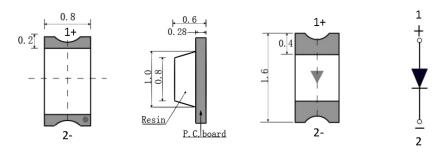


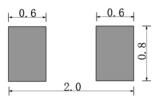
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Dimensions





Notes Dimensions : Millimetres

- 1. All dimension tolerance is ±0.2mm unless otherwise noted.
- 2. All PCB and markings are subject to change without prior notice.
- 3. Polarity mark: ▼or T

SMT Reflow Soldering Instructions

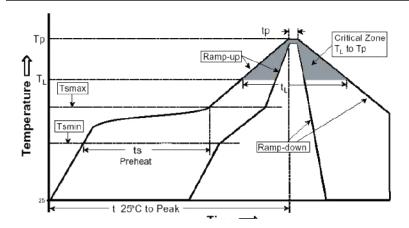
- 1. High temperature welding recommended no more than 2 times
- 2. When soldering, do not put stress on the LEDs during heating
- 3. Reflow temperature distribution (Acc.to J-STD-020D)

Profile feature	Sn-Pb Eutect	tic Assembly	Pb-Free Assembly	
Profile leature	Large body	Small body	Large body	Small body
Average ramp-up rate (TL to Tp)	3°C / second max.			
Preheat -Temperature Min (TSmin) -Temperature Max (TSmax) -Time (min to max) (ts)	100°C 150°C 60 to 120 seconds		150°C 200°C 60 to 180 seconds	
Tsmax to TL -Ramp-up Rate			3°C / sec	cond max.
Time maintained above -Temperature (TL) -Time (tL)	183°C 60 to 150 seconds		217°C 60 to 150 seconds	
Peak Temperature (Tp)	225 +0/-5°C	240 +0/-5°C	245 +0/-5°C	260 +0/-5°C
Time within 5°C of actual Peak Temperature (tp)	10 to 30 seconds		10 to 30 seconds	20 to 40 seconds
Ramp-down Rate	6°C / second max.			
Time 25°C to Peak Temperature	6 minutes max.		8 minutes max.	

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Soldering iron

- 1. When hand soldering, the temperature of the iron must be less than 350°C for 3 seconds
- 2. The hand solder should be done only once

Part Number Table

Description	Part Number
Chip LED, Green, 577nm, 120°, 90mcd, Surface Mount	MP008288

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