Description

Size: 5mm (T-1 3/4) Round Type.

Color: Two Color (Red and Green).

Main Features

I Instant light less than 100ns turn on time.

I Superior resistance to moisture.

Low drive current, recommend forward current: IF= 10- 20mA.

I Cool beam, safe to touch.

I Common Anode.

I Reliable and rugged.

I Pb-free

Absolute Maximum Rating TA=25℃										
Parameter	Symbol	Rating		Unit	Notice					
Power Dissipation	Pd	Red	80	- mW						
		Green	75	IIIVV						
DC Forward Current	IF ·	Red	25	- mA						
		Green	25	IIIA						
Pulse Forward Current	IF (PEAK)	Red	100	mΛ	Duby 1/10 @ 1// U-					
		Green	90	- mA	Duty 1/10 @ 1KHz					
Derating Linear From 50°C		0.4		mA/ °C						
Reverse Voltage	VR	5		V	Under 100uA					
Operating Temperature Range	T OPR	-30 to +80		$^{\circ}\!\mathbb{C}$						
Storage Temperature Range	T STG	-40 to +80		$^{\circ}\!\mathbb{C}$	Humidity should be under 50%					
Lead Soldering Temperature	T SOL	260 +/-5		°C	4mm (0.157") from mold body Less then 5 Second					

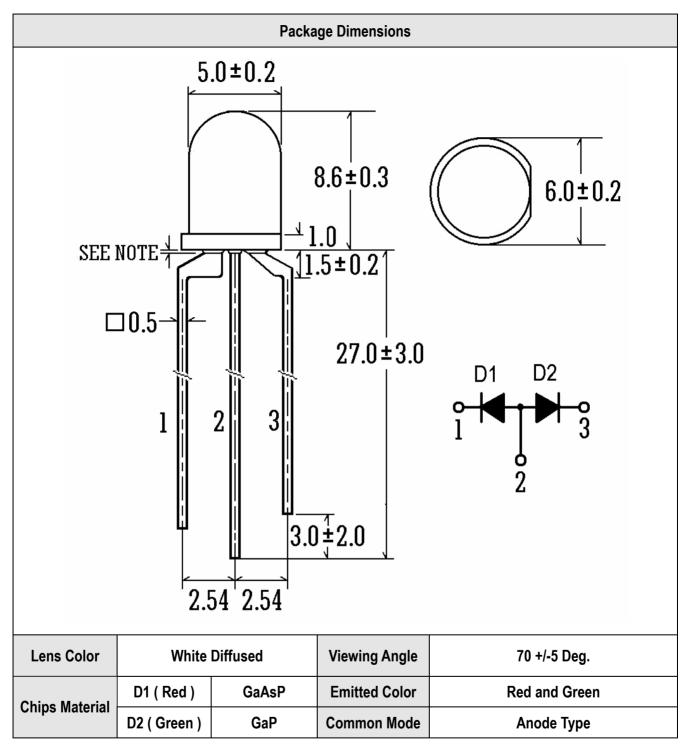


Part Selection Electrical / Optical Characteristics At TA-25℃											
Characteristic	Symbol	Test Condition	Color	Min.	Тур.	Max.	Unit.				
Forward Voltage	VF	IF =20mA	Red	1.5	1.8	2.4	V				
		IF -2011IA	Green	1.7	2.2	2.6] v				
Reverse Current	lR	\/p =5\/	Red	_	_	10	- uA				
		VR =5V	Green	_	_	10					
Luminous Intensity (Note 1)	lv	IF =20mA	Red	20	40	60	- mcd				
			Green	25	50	70					
Peak Emission Wavelength	λρ	IF =20mA	Red	655	660	665	- nm				
			Green	565	568	573					
Spectral Line Half Width	Δλ	IF =20mA	Red	20	25	30	- nm				
			Green	25	30	35					
Dominant Wavelength (Note 2)	λd	IF =20mA	Red	635	640	645	- nm				
			Green	566	572	576					

Note:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. The dominant wavelength (λ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 3. Forward voltage measurement allowance is +/-0.1V
- 4. Luminous intensity measurement allowance +/-10%

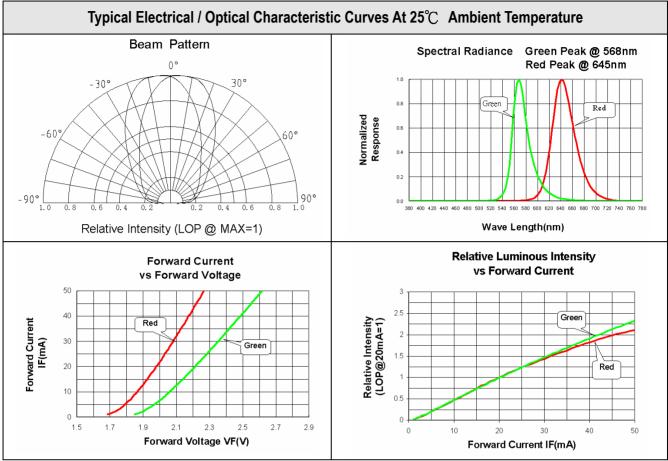




NOTES:

- I All dimensions are in millimeters (inches).
- I Tolerance is ± 0.25 mm (.010") unless otherwise noted.
- I Protruded resin under flange is 1.0mm(.04") max
- I Lead spacing is measured where the leads emerge from the package.
- I Specifications are subject to change without notice.





NOTE:

- I $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- I Clean only in isopropanol, ethanol, Freon TF (or equivalent).
- I When using this product, Please observe the absolute maximum rating and the instructions for use outlined from use of the product, which does not comply with the absolute maximum rating and the instructions included in these specification sheet.
- I Q.A Outgoing inspection standard:

Major Defect 0.65 A.Q.L. Minor Defect 1.5 A.Q.L

I Lead Forming:

If forming is required, it must be done before soldering. Form pin leads by securing under 5mm from body and bedding with radio pliers or the equivalent to avoid pressure on resin. When the LED is mounted into a P.C.board, pitch spacing should be aligned to prevent cause any stress to the resin. Any unsuitable stress applied to resin may break bonding wire in LED, which will cause failure.

I Check at a distance of 30cm from the LED to the eye defects.

I Over-current-proof:

Customer must apply resistor for protection; otherwise slight voltage shift will cause big current change (Burn out will happen).

I Parallel connection:

Customer must apply series resistor in **EACH LED** under parallel connection. Otherwise VF tolerance will cause LED array brightness uneven.

Specifications are subject to change without notice.

