



DATA SHEET

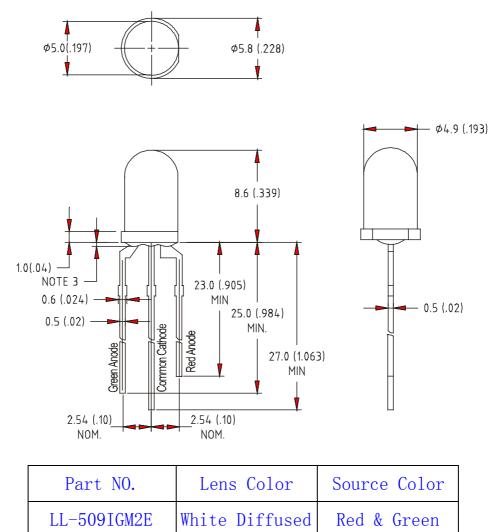
QC:	ENG	:	Prepared By:		
Part No.	LL-509IGM2E	Spec No.	S/N-I3G3X34CC	Page	1 of 5



Features

- ♦ Standard T-1 3/4 diameter package
- ♦ Wide viewing angle
- ♦ General purpose leads
- ◆ Reliable and rugged

Package Dimension:



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25 \, (.\,010"$)mm unless otherwise noted.
- 3. Protruded resin under flange is $1.\,0\text{mm}\,(.\,04^{\,\prime\prime}\,)$ max
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice

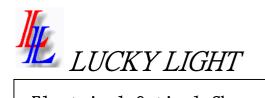
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Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit	
Power Dissipation	100	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA	
Continuous Forward Current	40	mA	
Derating Linear From 50℃	0. 4	mA/°C	
Reverse Voltage	5	V	
Operating Temperature Range	-40°C to +80°C		
Storage Temperature Range	-40°C to +80°C		
Lead Soldering Temperature [4mm(.157") From Body]	260℃ for 5 Seconds		

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Electrical	Optical	Characteristics	at	Ta=25℃
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Parameter	Symbol	Emitting Color	Min.	Тур.	Max.	Unit	Test Condition	
Luminous Intensity	Iv	Red		20		mcd	I _f =20mA Note 1	
Luminous intensity		Green		12				
Viewing Angle	$2 \theta_{1/2}$	Red		40		D	Nata 9	
Viewing Angle		Green		40		Deg	Note 2	
Peak Emission	λp	Red		644		nm	Measurement @Peak	
Wavelength		Green		565				
Deminent Wouslength	λd	Red		626		nm	Note 3	
Dominant Wavelength		Green		572				
Spectral Line	$\bigtriangleup \lambda$	Red		42				
Half-Width		Green		30		nm		
E	V _F	Red		2.0	2.8	V	I -00 A	
Forward Voltage		Green		2.1	2.8	V	$I_F = 20 \text{mA}$	
Demonso Cristiani	I _R	Red			100	μĄ		
Reverse Current		Green					$V_R = 5V$	

Note:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{\mbox{\tiny 1/2}}\ \mbox{is the off-axis angle at which the luminous intensity is half the axial luminous intensity.$
- 3. The dominant wavelength (λ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

Part No.



