

LL-F503SC2E

DATA SHEET

QC: ENG: Prepared By:

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Features:

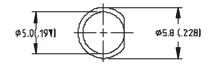
CMOS Technology.
Designed for bonding with LED chip.
Operating voltage range: 3V-10V 3V-10V DC

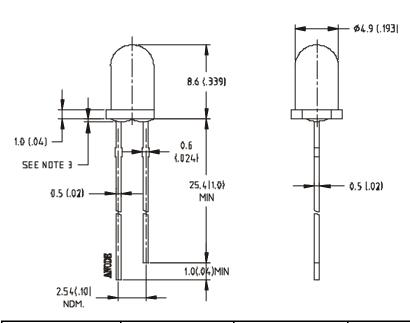
1/4 Duty cycle. Blinking frequency: 2.4Hz (Vdd=5V)

Frequency tolerance: ±20%

With both sink and source output drivers.

Package Dimensions:





Part NO.	Chip Material	Lens Color	Source Color
LL-F503SC2E	GaInN	Water Clear	Red

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 1.0mm(.04") max
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice
- 6. Precautions for ESD:

STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

7. This data-sheet only valid for six months.

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Absolute Maximum Ratings at Ta=25

Parameter	Max	Unit	
Continuous Forward Current	30 mA		
Derating Linear From 50	0.4 mA/		
Reverse Voltage	5 V		
Operating Temperature Range	-40 to +80		
Storage Temperature Range	-40 to +80		
Lead Soldering Temperature [4mm(.157") From Body]	260 for 5 Seconds		



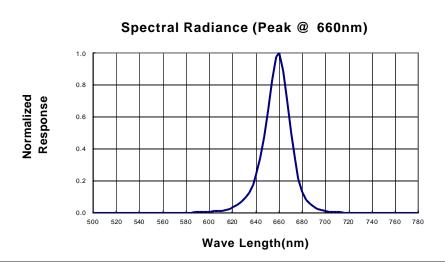
Electrical Optical Characteristics at Ta=25 (Vdd=5V Unless Otherwise Specified)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	lv	220	300		mcd	I _F =20mA (Note 1)
Peak Emission Wavelength	р	655	660	665	nm	Measurement @Peak
Dominant Wavelength	d	635	640	645	nm	Note 1
Operating Voltage	V_{dd}	3	5	10	V	
Output Sink Current	l sink		45		mA	
Output Source Current	I source		25	1	mA	
Blinking Frequency	F blk	2.0	2.4	2.8	Hz	
Reverse Current	I _R			100	μΑ	V _R =5V

Note:

- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. The dominant wavelength (d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

Typical Electrical / Optical Characteristics Curves (25? Ambient Temperature Unless Otherwise Noted)



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