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LL-504WC2E-W6-1ED

DATA SHEET

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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	35	mA
Derating Linear From 50°C	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°C for 5 Seconds	

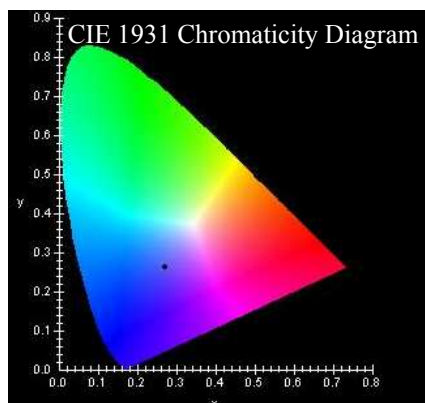
Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	5000	6000	---	mcd	I _F =20mA (Note 1)
Viewing Angle	2θ _{1/2}	---	30	---	Deg	(Note 2)
$x = \frac{X}{X+Y+Z} = \frac{Red}{Red+Green+Blue}$	x	---	0.45	---	---	I _F =20mA (Note 3)
$y = \frac{Y}{X+Y+Z} = \frac{Green}{Red+Green+Blue}$	y	---	0.43	---	---	I _F =20mA (Note 3)
Forward Voltage	V _F	2.8	3.6	4.0	V	I _F =20mA
Reverse Current	I _R	---	---	100	μA	V _R =5V

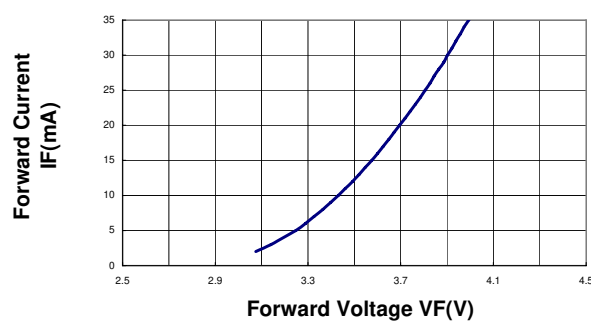
Notes:

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- It use many parameters that correspond to the CIE 1931 2°. X,Y, and Z are CIE 1931 2° values of Red, Green and Blue content of the measurement.

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



**Forward Current
vs Forward Voltage**



**Relative Luminous Intensity
vs Forward Current**

