

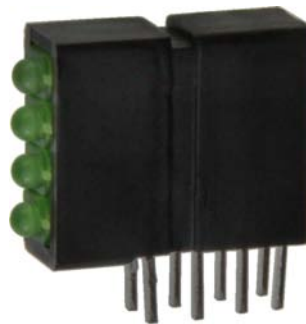


LEDTRONICS
America's Premium Brand LED Company™

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41PCT070TG4

Hi-Eff Green/Hi-Eff Green/Hi-Eff Green/Hi-Eff Green
1.8mm, Right Angle, Quad-Level LED Circuit Board Indicator
55° Viewing Angle



DWG BY:
GP
07-08-20

R&D:
UF
07-08-20

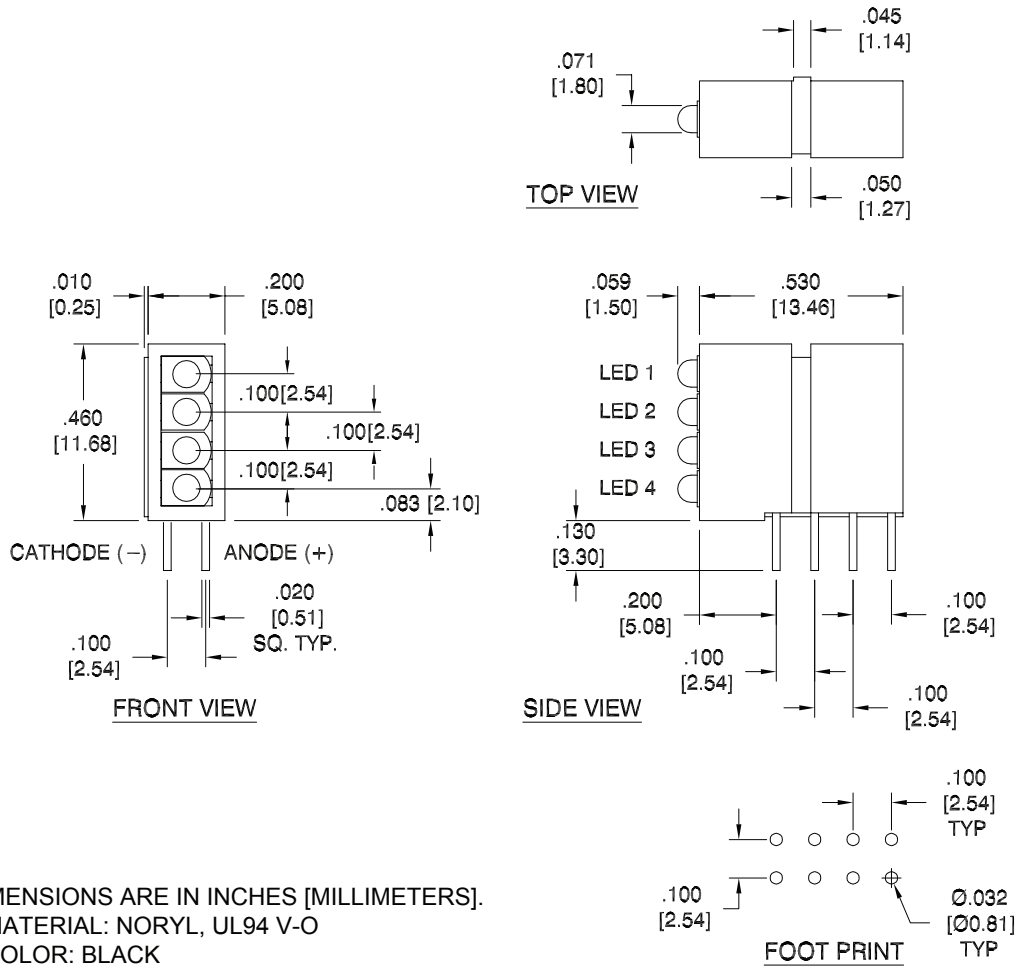
MFG:
LD
07-08-20

QA:
SB
07-08-20

REVISION LTR: -

07-08-20

● **Dimensions**

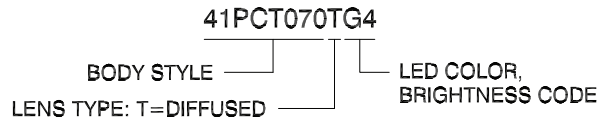


NOTES:

1. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
2. BASE MATERIAL: NORYL, UL94 V-O
3. BASE COLOR: BLACK

TOLERANCE PER ANSI-Y14.5
(UNLESS OTHERWISE STATED)

- .XXX ± .010
- .XX ± .025
- ANGLES ± 0°, 30'
- FRACT. ± 1/32



● **Absolute Maximum Ratings(Ta=25°C)**

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	80	mW
Forward Current	I _F	30	mA
Peak Forward Current* ¹	I _{FP}	150	mA
Reverse Voltage	V _R	5	V
Operating Temperature	Topr	-40°C~+85°C	
Storage Temperature	Tstg	-40°C~+85°C	

*¹Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

● **Electrical and Optical Characteristics(Ta=25°C)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20mA$	-	2.2	2.6	V
Luminous Intensity	I_v	$I_F=20mA$	-	40	-	mcd
Reverse Current	I_R	$V_R=5V$	-	-	100	μA
Peak Wave Length	λ_p	$I_F=20mA$	560	565	570	nm
Dominant Wave Length	λ_d	$I_F=20mA$	565	570	574	nm
Spectral Line Half-width	$\Delta\lambda$	$I_F=20mA$	-	29	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20mA$	-	55	-	deg
Radiant Intensity		$I_F=20mA$	-	-	-	$\mu W/sr$
Chromaticity Coordinates	X	$I_F=20mA$	-	0.44	-	
	Y		-	0.55	-	

● **Typical electro-optical characteristics curves**

Fig.1 Relative intensity vs. Wavelength

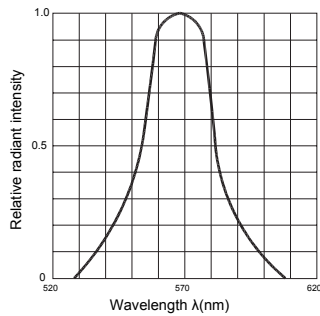


Fig.2 Forward current derating curve vs. Ambient temperature

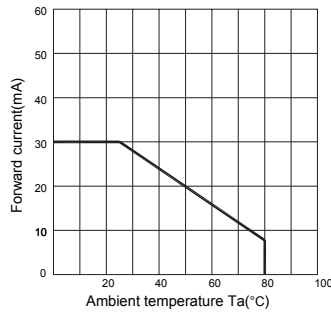


Fig.3 Forward current vs. Forward voltage

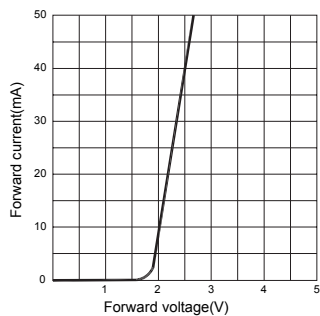


Fig.4 Relative luminous intensity vs. Ambient temperature

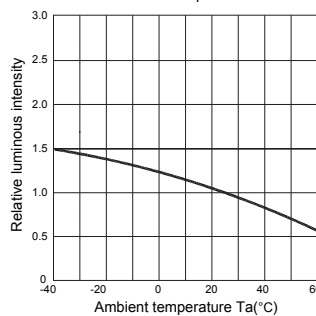


Fig.5 Relative luminous intensity vs. Forward current

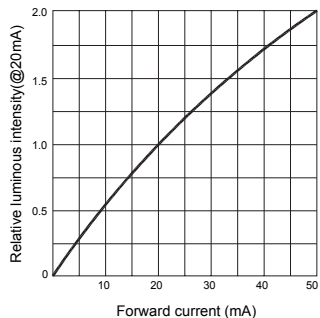
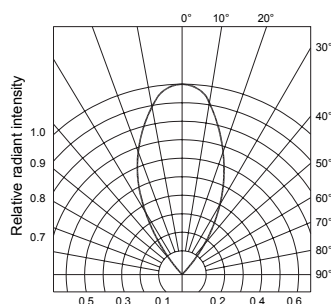


Fig.6 Radiation diagram



● **Features:**

1. Chip material: GaP/GaP
2. Emitted color: Hi-Eff Green
3. Lens Appearance: Green Diffused

● **Lead Frame:**

1. Lead material: Iron, Copper, Nickel and silver plated
2. Terminal finish: Pure Tin
3. Plating Thickness: 2 μm