



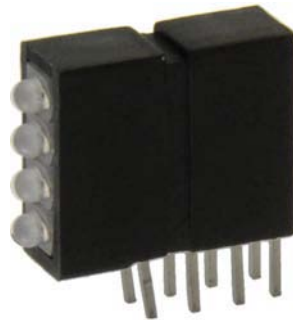
LEDTRONICS[®]
America's Premium Brand LED Company™

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41PCT070TWRG4

Hi-Eff Red/Hi-Eff Green

1.8mm, Right Angle, Quad-Level LED Circuit Board Indicator
60° Viewing Angle



DWG BY:
GP
05-23-12

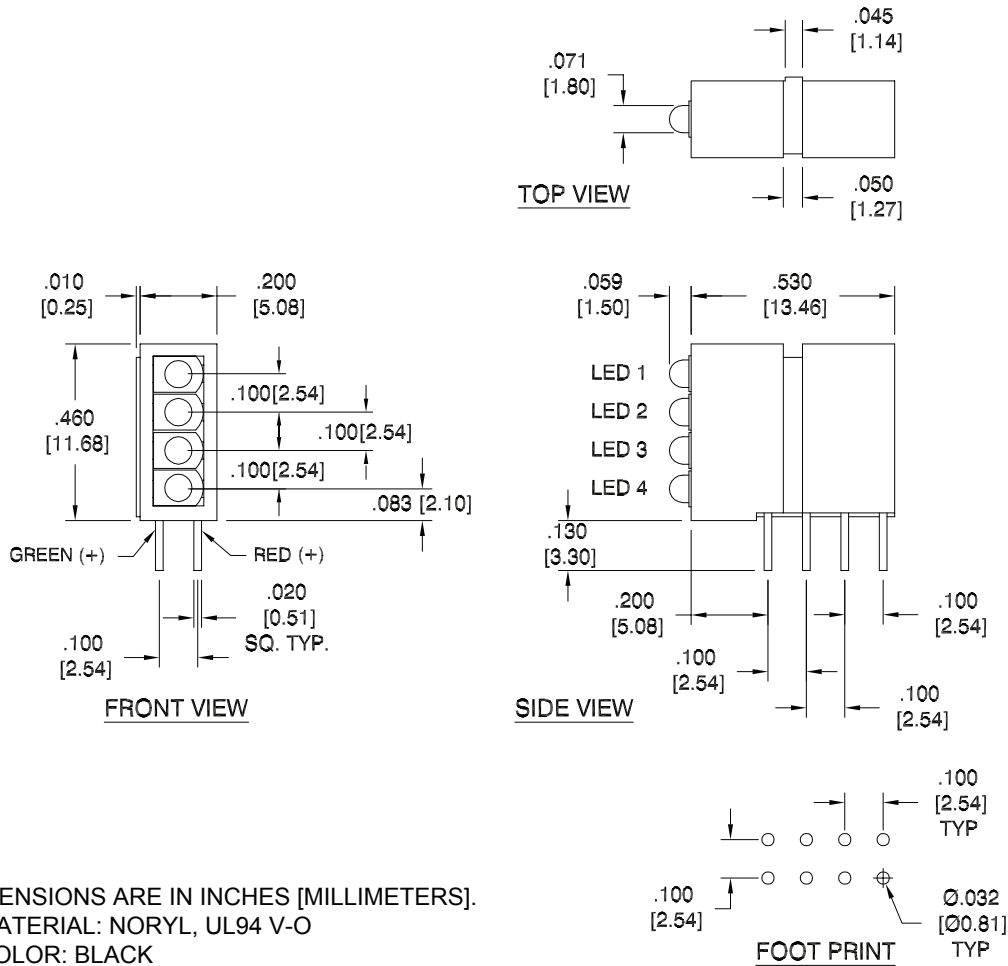
R&D:
UF
07-10-20

MFG:
LD
07-10-20

QA:
SB
07-13-20

REVISION LTR: A
ECR#: 071020-GP01
07-10-20

● Dimensions

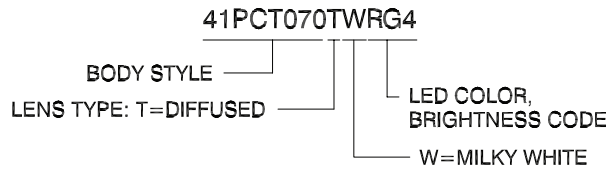


NOTES:

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	Hi-Eff Red	Hi-Eff Green	Unit
Power Dissipation	Pd	80	80	mW
Forward Current	I _F	30	30	mA
Peak Forward Current* ¹	I _{FP}	150	150	mA
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	Color	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20mA$	Hi-Eff Red Hi-Eff Green	-	2.0 2.2	2.6 2.6	V
Luminous Intensity	I_v	$I_F=20mA$	Hi-Eff Red Hi-Eff Green	-	18 32	-	mcd
Reverse Current	I_R	$V_R=5V$	Hi-Eff Red Hi-Eff Green	-	-	100	μA
Peak Wave Length	λ_p	$I_F=20mA$	Hi-Eff Red Hi-Eff Green	- -	643 565	- -	nm
Dominant Wave Length	λ_d	$I_F=20mA$	Hi-Eff Red Hi-Eff Green	617 560	626 571	638 576	nm
Spectral Line Half-width	$\Delta \lambda$	$I_F=20mA$	Hi-Eff Red Hi-Eff Green	-	43 29	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20mA$	Hi-Eff Red Hi-Eff Green	-	60	-	deg
Chromaticity Coordinates	X	$I_F=20mA$	Hi-Eff Red	-	0.70	-	
	Y				0.29		
Chromaticity Coordinates	X	$I_F=20mA$	Hi-Eff Green	-	0.45	-	
	Y				0.54		

● **Typical electro-optical characteristics curves**

● **Features:**

Fig.1 Relative intensity vs. Wavelength

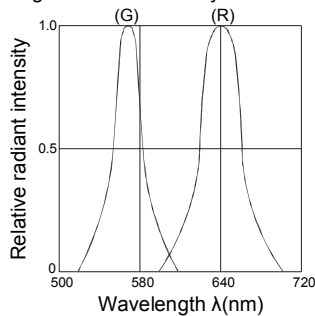


Fig.2 Forward current derating curve vs. Ambient temperature

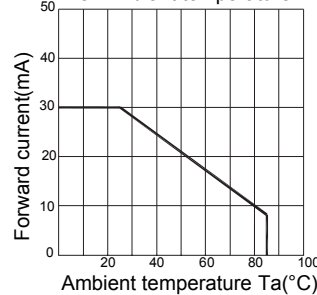


Fig.3 Forward current vs. Forward voltage

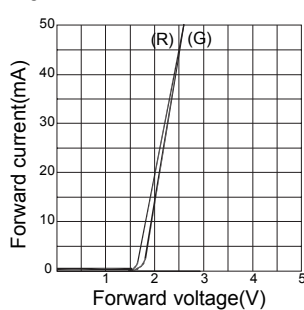


Fig.4 Relative luminous intensity vs. Ambient temperature

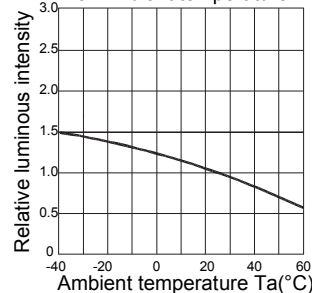


Fig.5 Relative luminous intensity vs. Forward current

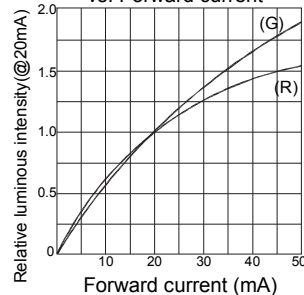
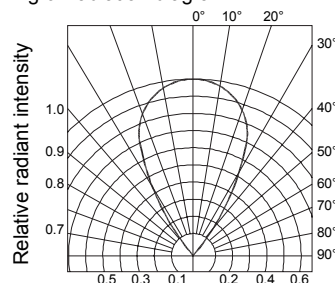


Fig.6 Radiation diagram



1. Chip material: GaAsP/GaP(Red) and GaP/GaP(Green)
2. Emitted color : Red and Green
3. Lens Appearance : White Diffused

Lead Frame:

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