23105 Kashiwa Court, Torrance, CA 90505
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E-mail: info@ledtronics.com
Website: http://www.ledtronics.com

21PCT120T4-0021
(21PCT120T4-R/R)

Hi-Eff Red/Hi-Eff Red

3mm (T1) Right-Angled Bi-Level PCB LEDs

45° Viewing Angle

DWG BY: GP 11-03-20
R&D: UF 11-04-20
MFG: LD 11-04-20
QA: SB 11-04-20
REVISION LTR: - 11-03-20

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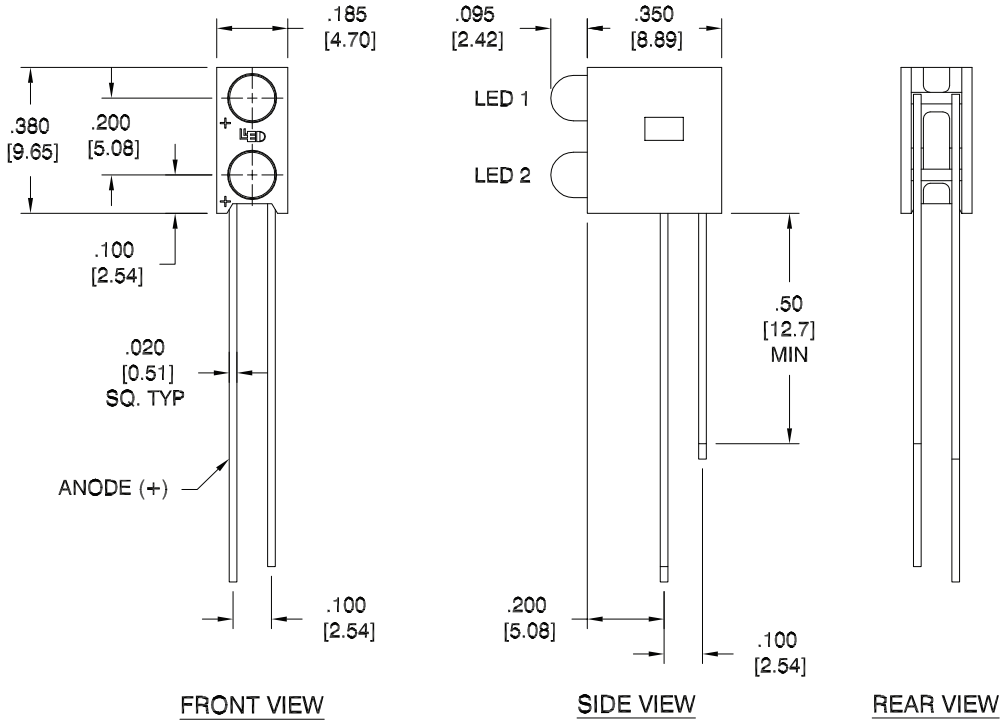
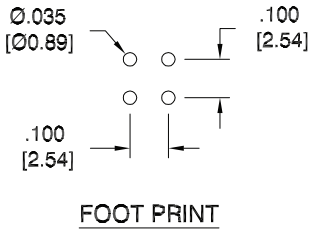
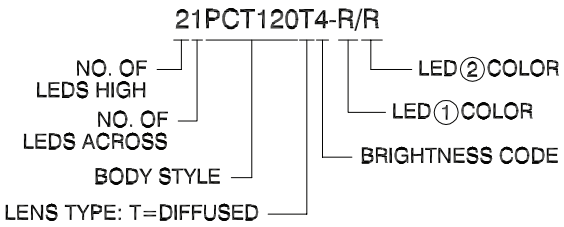
● Dimensions







TOLERANCE PER ANSI-Y14.5
(UNLESS OTHERWISE STATED)
.XXX ± .010
.XX ± .025
ANGLES ± 0°,30'
FRACT. ± 1/32

NOTES:
1. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
2. BASE MATERIAL: NYLON 66 (UL94V-0)
3. BASE COLOR: BLACK

RoHS COMPLIANT

● 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	

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

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

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	I_F=20mA	-	2.0	2.6	V
Luminous Intensity	Iv	I_F=20mA	-	37	-	mcd
Reverse Current	I_R	V_R=5V	-	-	100	μA
Peak Wave Length	λp	I_F=20mA	-	648	-	nm
Dominant Wave Lenght	λd	I_F=20mA	625	632	638	nm
Spectral Line Half-width	Δλ	I_F=20mA	-	42	-	nm
Viewing Angle	$2\theta_{1/2}$	I_F=20mA	-	45	-	deg
Radiant Intensity		I_F=20mA	-	-	-	μW/sr
Chromaticity Coordinates	X	I_F=20mA	-	0.71	-	
	Y		-	0.29	-	

● Typical electro-optical characteristics curves

Fig.1 Relative intensity vs. Wavelength

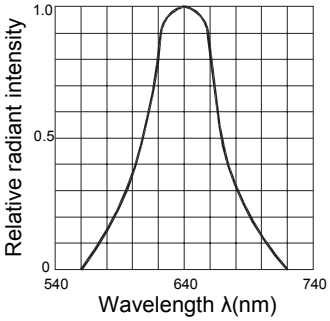


Fig.2 Forward current derating curve vs. Ambient temperature

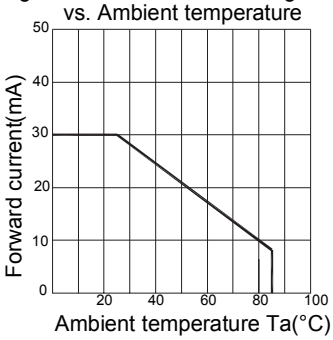


Fig.3 Forward current vs. Forward voltage

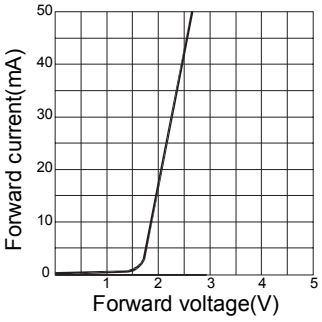


Fig.4 Relative luminous intensity vs. Ambient temperature

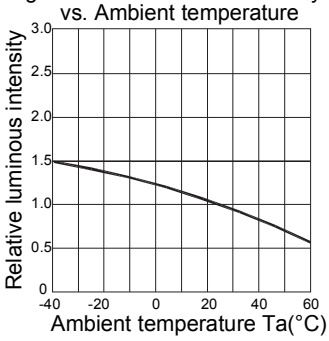


Fig.5 Relative luminous intensity vs. Forward current

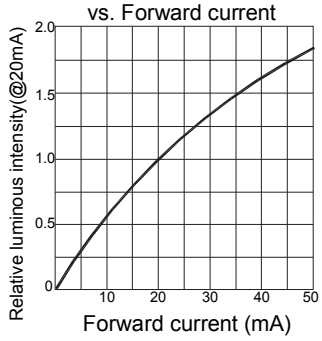
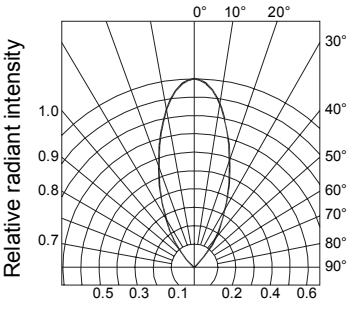


Fig.6 Radiation diagram



● Features:

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

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