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PC120TWRG4B-140

Hi-Eff Red/Green

T1 (3mm) Right-Angle 0.20" Centerline PCB LEDs
60° viewing angle

DWG BY:
BL / GP
03-27-08

CHK BY:
PL
03-27-08

QA:

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MFG:

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REVISION LTR: -

03-27-08

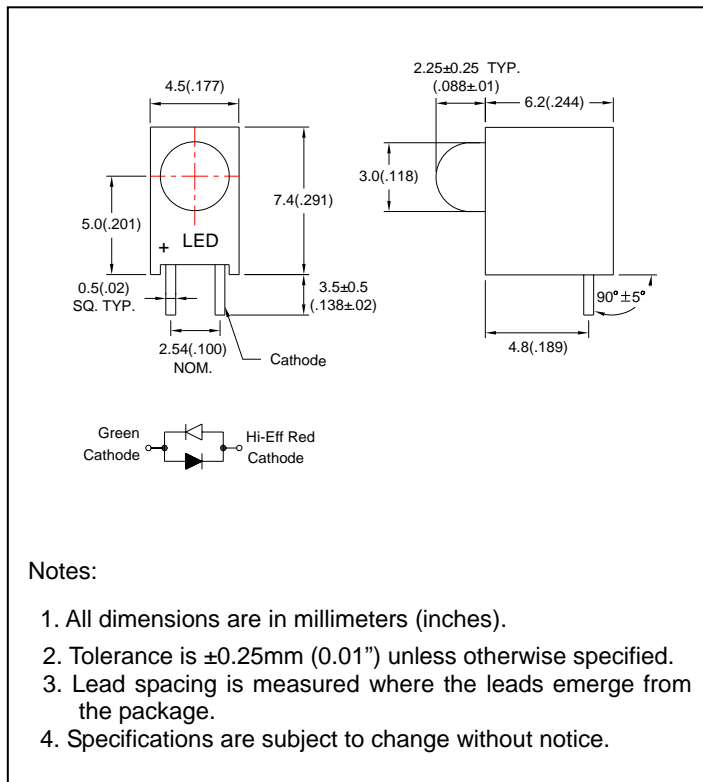
● **Features:**

1. Chip material: GaAsP/GaP(Red)
and GaP/GaP (Green)
2. Emitted color :Hi-Eff Red and Green
3. Lens Appearance : White Diffused
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 3mm diameter package
9. This product is RoHS compliant.

● **Applications:**

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● **Package Dimensions:**



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

Parameter	Symbol	Hi-Eff Red	Green	Unit
Power Dissipation	Pd	80	80	mW
Forward Current	I _F	30	30	mA
Peak Forward Current* ¹	I _{FP}	150	150	mA
Reverse Voltage	V _R	5		V
Operating Temperature	Topr	-40°C ~ 80°C		
Storage Temperature	Tstg	-40°C ~ 85°C		
Soldering Temperature	Tsol	260°C (for 5 seconds)		

*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 Green	-	2.0 2.2	2.6 2.6	V
Luminous Intensity	I _v	I _F =20mA	Hi-Eff Red Green	-	5 7	-	mcd
Reverse Current	I _R	V _R =5V	Hi-Eff Red Green	-	-	100	μA
Peak Wave Length	λ _p	I _F =20mA	Hi-Eff Red Green	- -	645 568	- -	nm
Dominant Wave Length	λ _d	I _F =20mA	Hi-Eff Red Green	- -	629 571	- -	nm
Spectral Line Half-width	Δλ	I _F =20mA	Hi-Eff Red Green	- -	44 30	- -	nm
Viewing Angle	2θ _{1/2}	I _F =20mA	Hi-Eff Red Green	-	60	-	deg
Chromaticity Coordinates	X	I _F =20mA	Hi-Eff Red	-	0.70	-	
	Y				0.30		
Chromaticity Coordinates	X	I _F =20mA	Green	-	0.45	-	
	Y				0.54		

● **Typical Electro-Optical Characteristics Curves**

