

P-tec Corp. Tel:(800)688-0613  
 2405 Commerce Circle Tel:(719) 589 3122  
 Alamosa Co. 81101 Fax:(719) 589 3592  
 www.p-tec.net sales@p-tec.net



## PL0012 Series SMD LED Hi-Eff Red 0805 Package

### Features

- \*Flat Package 2.0 x 1.25 x 0.8 mm
- \*Low Current Requirements
- \*High Light Output
- \*Compatible with IR Solder-Process
- \*Industry Standard Footprint
- \*JEDEC Precondition Stress tested
- \*4000 pcs per Reel
- \*RoHS Compliant

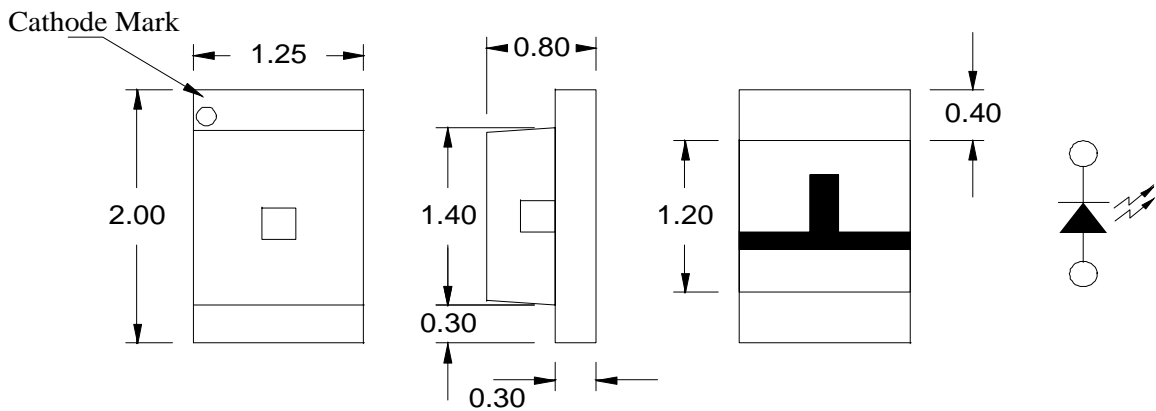
### Absolute Maximum Ratings at $T_A = 25^\circ\text{C}$

Power Dissipation.....	78mW
Reverse Voltage (<math><100\mu\text{A}</math>) .....	5.0V
Max Forward Current .....	30mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) .....	80mA
Operating Temperature Range .....	-30°C to + 80°C
Storage Temperature Range .....	-40°C to + 85°C
Reflow Soldering Temperature.....	260°C for 5 seconds

### Electrical & Optical Characteristics at $T_A = 25^\circ\text{C}$

Part Number	Emitting Color	Chip Material	Peak Wave Length	Dominant Wave Length	Viewing Angle 2 $\theta$ 1/2	Forward Voltage @20mA (V)		Luminous Intensity @20mA (mcd)	
						Typ	Max	Min	Typ
White Diffused Lens			nm	nm	Deg				
PL0012-WDR12	Hi-Eff Red	GaAsP	630	625	140	1.9	2.6	6.0	11.0

Package Dimensions are in **Millimeters**. Tolerance is  $\pm 0.1\text{mm}$  unless otherwise specified.



### Recommended Soldering Pad Layout

