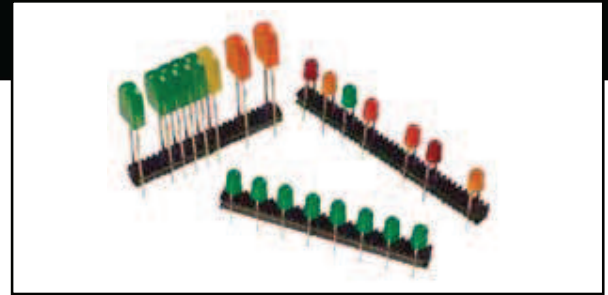


# VBI/VBD Series Vertical LED Bar\*

## Special Features

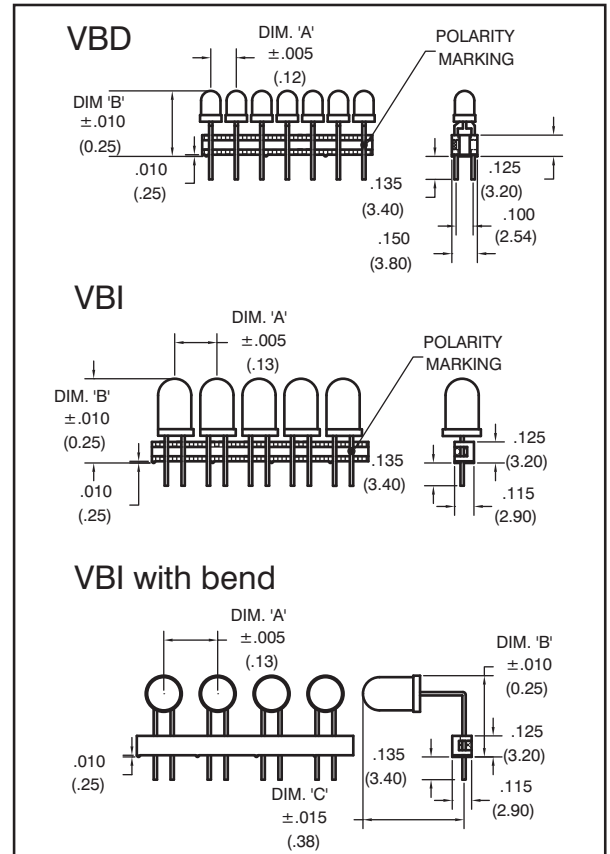
\*Patented

- Mounts series of LEDs in single-in-line or dual-in-line footprint
- Customized to your specifications without tooling charges
  - Center LED spacing in .050" increments or built to your specifications
  - Minimum spacing .100" (2.54 mm)
  - Maximum bar length 3.0" (76.2 mm)
  - Color combinations available at no extra cost
  - Assembly height built to your design
- Any size or type LED can be used- VBI bar holds 3 leaded LEDs
- Bar provides consistent alignment and one-step PC Board mounting
- Bottom standoff facilitates board washing
- Wave solderable and chemically cleanable – bar material UL 94V-O rated
- Polarity identification on bar
- Custom offset and right angle bends available on VBI bar



PC Board Mount LEDs

## Package Dimensions



All dimensions are in inches (mm)

## Electrical and Optical Characteristics (TA = 25°C)

LED Part #	Color	Luminous Intensity (mcd) Typ. @ I <sub>f</sub> (mA)		V <sub>f</sub> Typ. @ I <sub>f</sub> (mA)	Viewing Angle 2θ ½	Peak Wavelength (nm)
<b>HIGH EFFICIENCY T1 ( 3mm)</b>						
1300	Yellow	6.0	10	2.0	10	60°
1301	Red	5.5	10	1.9	10	60°
1302	Green	5.0	10	2.1	10	60°
1313	Orange	5.5	10	1.9	10	60°
<b>HIGH EFFICIENCY T 1 3/4 ( 5mm)</b>						
3008	Red	11.0	10	1.9	10	60°
3019	Green	14.0	10	2.1	10	60°
3020	Yellow	8.0	10	2.0	10	60°
3022	Orange	7.0	10	1.9	10	60°
<b>HIGH EFFICIENCY 2.5 x 5mm ( Tombstone)</b>						
5001	Yellow	5.0	10	2.1	20	100°
5002	Green	6.0	10	2.2	20	100°
5003	Red	10.0	10	2.0	20	100°

## How To Order

**VBI Bar**

**x** - VBI- **xxxx** - **xxx** - **xxx** - VTL - **S**

Number of LEDs per bar

LED Type/Color (See LED Part#)  
Use MCOO for multiple colors

Center to Center Spacing of LEDs ( Ref: Dim A)  
If varies, use SPL

Nominal assembly height off PCB in inches (Ref: Dim B)

S=Standard  
X=Special

**VBD Bar**

**x** - VBD - **xxxx** - **xxx** - **xxx** - VTL - **S**

Number of LEDs per bar

LED Type/Color (See LED Part#)  
Use MCOO for multiple colors

Center to Center Spacing of LEDs (Ref: Dim A)  
If varies, use SPL

Nominal assembly height off PCB in inches (Ref: Dim B)

VTL=Vertical  
xxx=Bend Dimension from LED to leads in inches (Ref: Dim C)

S=Standard  
X=Special