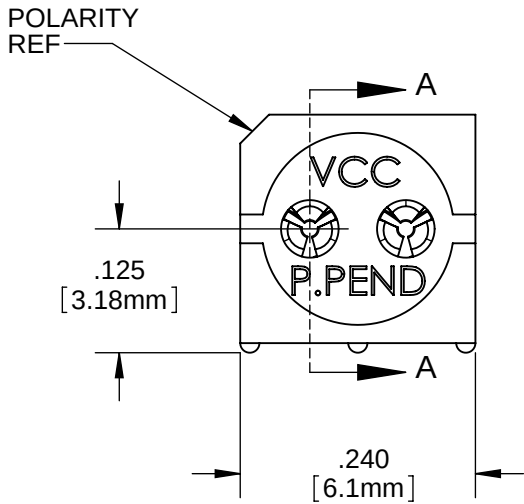
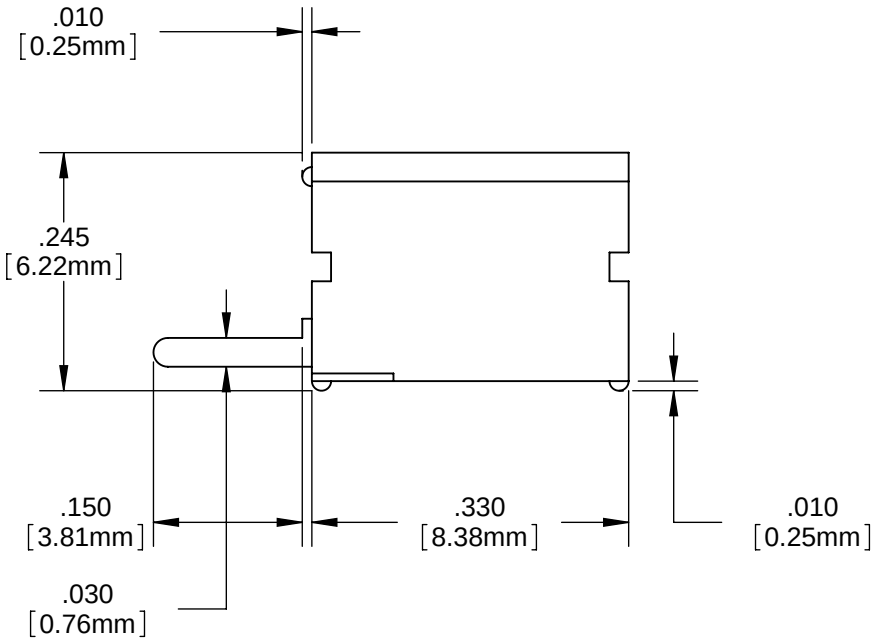
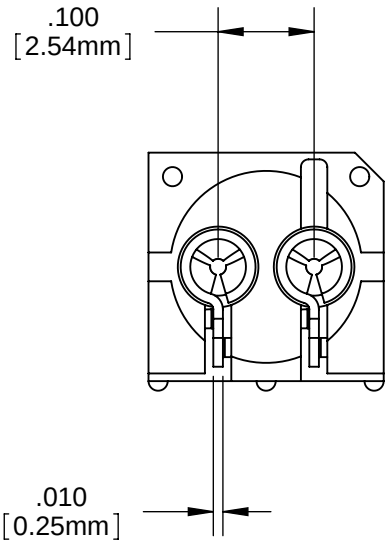
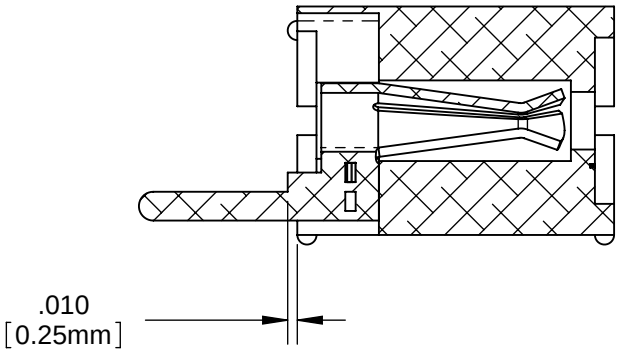
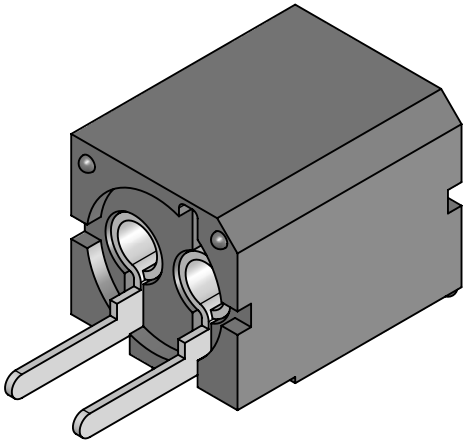
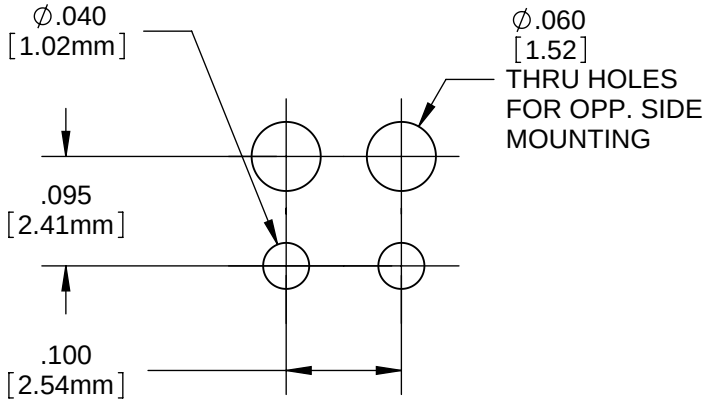


- NOTES:
1. MOUNTING: Spacing on .250 [6.35mm] centers. Optional .060 [1.52mm] holes for opposite side mounting. Same side mounting, delete the .060[1.52mm] holes. (see pattern)
 2. OPTO: Standard visible, IR LED, or photo detector with leads on .100 [.25mm] centers.
 3. LED LEAD DIMENSIONS: Minimum .017 [.43mm] round our square shape. Maximum .030 [.76mm] thickness - .040 [1.02mm] width.
 4. MATERIAL: Housing - Nylon 6/6, U.L. 94 V0 Rating, Color black (unless otherwise spec.)
Contacts - Phosphor bronze, tin sulfamate plated.
 5. U.S. & Foreign Pat. Issued & Pend.

REVISIONS				
ECN#	REV.	DESCRIPTION	DATE	INITIALS
	001	REVISED PER ECR111009AZ01	6-20-10	SMU



ORDERING CODE : **PCV 220**

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES: ANGLES DECIMALS ±1' .X ±.020 .XX ±.010 FINISH .XXX ±.005 BREAK ALL CORNERS AND SHARP EDGES .030 MAX THIRD ANGLE PROJECTION PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VISUAL COMMUNICATIONS COMPANY, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF VISUAL COMMUNICATIONS COMPANY, INC. IS PROHIBITED.		MATERIAL SEE NOTES		VISUAL COMMUNICATIONS COMPANY, INC. 190 Bosstick Boulevard, Suite101 San Marcos, CA 92069 USA Phone (760) 560-1300 Fax (760) 560-1301 email vccsales@vcclite.com		
		FINISH		TITLE: P-C-LITE® VERTICAL MOUNT		
APPROVAL		DATE		SIZE	DWG. NO.	REV
DRAWN: SMU		6-20-10		B	PCV 220	001
CHECKED: DZ		6-20-10		SCALE: 5:1		
DO NOT SCALE DRAWING				SHEET 1 OF 1		

Feature

- § Low Power Consumption
- § I.C. compatible

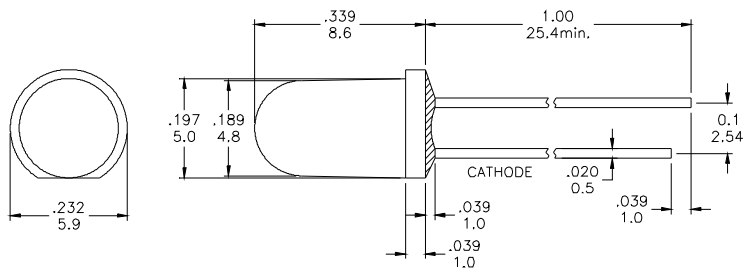
Applications

- § Commercial Outdoor Sign Board
- § Front Panel Indicator
- § Dot-Matrix Module
- § LED Bulb

Description

- § These LEDs are Based on GaAsP/GaP Material Technology
- § Emitted color:Yellow
- § Yellow Diffusion Lens

Package Dimension



* Tolerance : $\pm \frac{0.01}{0.25}$ Unit : $\pm \frac{\text{inch}}{\text{mm}}$

Absolute Maximum Ratings at Ta=25°C

Symbol	Parameter	Max.	Unit
PD	Power Dissipation	100	mW
VR	Reverse Voltage	5	V
IAF	Average Forward Current	30	mA
IPF	Peak Forward Current (Duty=0.1, 1kHz)	100	mA
—	Derating Linear Form 25°C	0.4	mA/°C
Topr	Operating Temperature Range	-20 to + 80	°C
Tstg	Storage Temperature Range	-20 to + 100	°C
Lead Soldering Temperature [1.6mm (0.063inch) From Body] 260°C For 5 Seconds.			

Electrical / Optical Characteristics and Curves at Ta=25°C

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
VF	Forward Voltage	IF= 20 mA		2.0	2.4	V
IR	Reverse Current	VR= 5 V			100	μ A
$\triangle \theta$	Half Intensity Angle	IF= 20 mA		60		Deg.
IV	Luminous Intensity	IF= 20 mA		80		mcd.
λd	Dominant Wavelength	IF= 20 mA		590		nm

Electrical Characteristics at Ta=25°C

Symbol	I _v		V _F		λ D	
Parameter	Luminous Intensity		Forward Voltage		Dominant Wavelength	
Condition	IF=20mA		IF=20mA		IF=20mA	
Unit	mcd		V		nm	
Binning	Grade	Range	Grade	Range	Grade	Range
	--	-80	C	1.9~2.0	Y4	589~591
	--	--	D	2.0~2.1	Y5	591~593
	--	--	E	2.1~2.2	Y6	593~595
			F	2.2~2.3		
			G	2.3~2.4		

Intensity: Tolerance of minimum and maximum = ± 15%

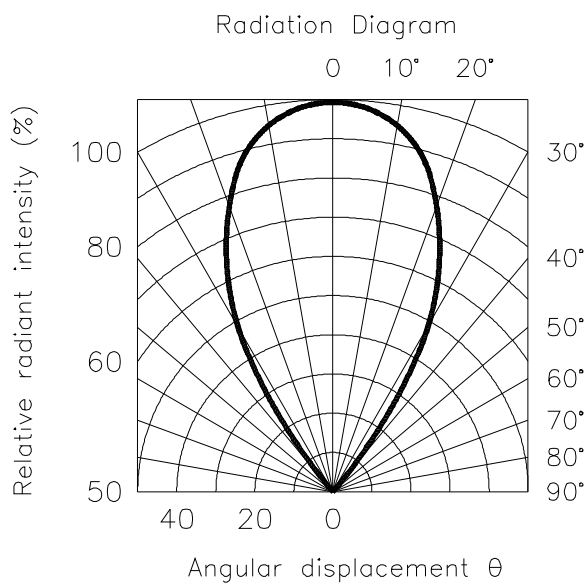
V_f: Tolerance of minimum and maximum = ± 0.025v

NOTE:

1. Static electricity and surge damages the LED. It is recommend to use a anti-static wrist band or anti-electrostatic glove when handing the LEDs. All devices, equipment and machinery must be properly grounded.
2. Specific binning requirements –please contact our home office

Radiation Diagram

IF=20 mA 50% Power Angle Angle Y=60°



YELLOW

Typical Electro-optical Characteristic Curves (25°C Free Air Temperature Unless Otherwise Specified)

