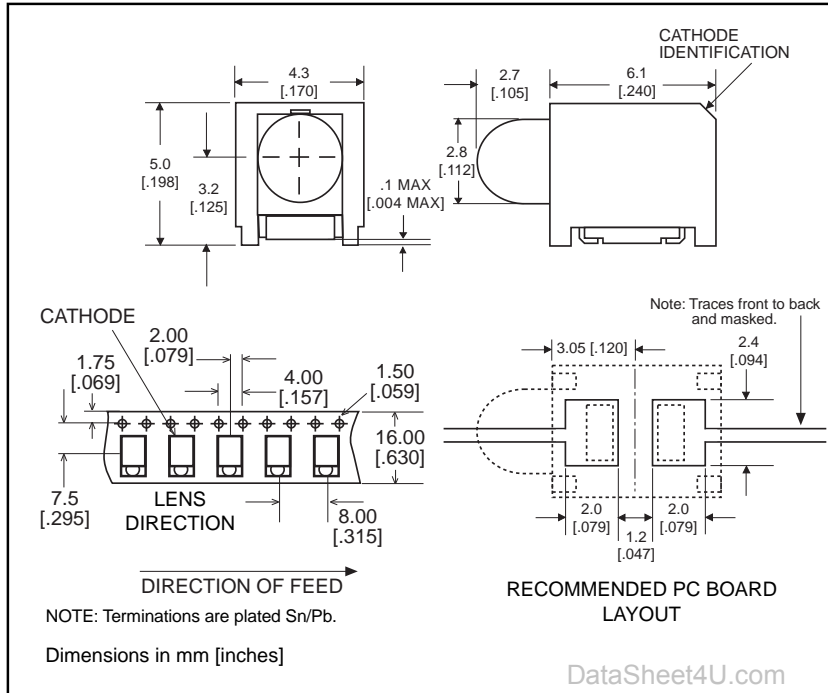


3mm**Prism® CBI® Circuit Board Indicator
Surface Mount LED, Round Lens****Dialight****591-2x01-0xx**

U.S. Patent RE 34,254; foreign patents pending.

Operating Characteristics ($T_A = 25^\circ\text{C}$)

Parameter	Part No.	Min	Typ	Max	Units	Test Cond.
Forward Voltage V_F	-2001		2	2.6	V	$I_F = 10\text{mA}$
	-2101		1.75	2.6		
	-2301		2	2.6		
	-2401		2	2.6		
Reverse Voltage V_R	-2001	5			V	$I_R = 10\ \mu\text{A}$
	-2101	3				
	-2301	5				
	-2401	5				
Dominant Wavelength λ_{Dom}	-2001		628		nm	
	-2101		645			
	-2301		570			
	-2401		590			
Luminous Intensity I_V	-2001		5		mcd	$I_F = 10\text{mA}$
	-2101		14			
	-2301		4			
	-2401		5			
Viewing Angle ($2\theta_{1/2}$)	All		40		deg.	

$\theta_{1/2}$ is the off axis angle at which the luminous intensity is half the axial luminous intensity

**Part
Number*****Type**

591-2001-0xx	High Efficiency Red
591-2101-0xx	AlGaAs Red
591-2301-0xx	High Performance Green
591-2401-0xx	High Performance Yellow

Benefits

- Helps to eliminate mixed technology PC board processing.
- Unique patented low part count design.
- Compatible with automatic placement equipment.
- Compatible with infrared and vapor phase solder processes.
- Packaged on 16mm tape, 13" reels per EIA-481-2.
- Black housing enhances contrast ratio.
- Housing and lens material meets UL94V-0 flammability rating.
- Uses LEDs designed specifically for surface mounting.

ORDERING INFORMATION*591-2x01-0xx**packaging option \uparrow

02	20 pieces on tape
13	13" reel, 1600 pcs/reel

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

Parameter	All Types
Power Dissipation (derate linearly from 25°C at $1.3\text{ mW}/^\circ\text{C}$)	100 mW
Forward DC Current	30 mA
Peak Forward Current (10 μsec)	500 mA
Operating Temperature	-55°C to $+100^\circ\text{C}$
Storage Temperature	-55°C to $+100^\circ\text{C}$
Soldering Temperatures Convection IR Vapor Phase	235° Peak, above 185° for 90 sec., 215° for 3 Min.

Solder Adherence per MIL-STD-202E, Method 208C

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