



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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# 592 SERIES

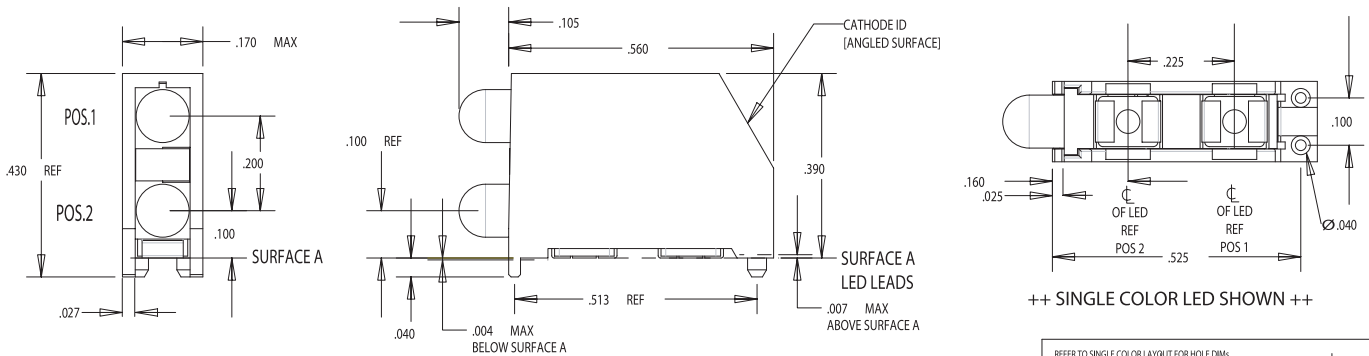
## 3mm Bi-level Prism® CBI® Surface Mount LED BI-COLOR



### FEATURES / BENEFITS

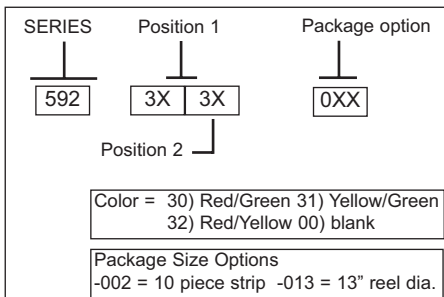
- ▲ Available as a Lead (Pb) Free product - RoHS Compliant.
- ▲ Incorporates latest LED technology, specifically designed for surface mounting.
- ▲ Compatible with automatic placement equipment.
- ▲ Compatible with surface mount reflow soldering processes.
- ▲ Black housing enhances contrast ratio.
- ▲ Housing material meet UL-94V-0 flammability ratings.
- ▲ Patented Bi-level design provides increased indication without increased space.
- ▲ Illumination areas compatible with industry standard 3mm through-hole Bi-level Circuit Board Indicators.
- ▲ Packaged in moisture barrier bags for dry packaging per IPC/JEDEC J-STD-033.
- ▲ Helps to eliminate mixed technology pc board processing.

### SPECIFICATIONS



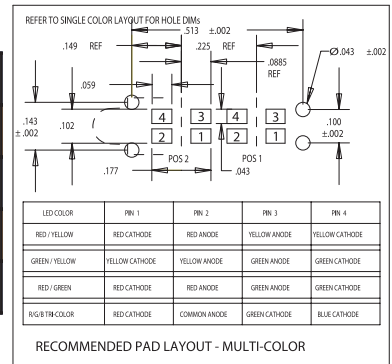
++ SINGLE COLOR LED SHOWN ++

#### PART NUMBER CODE\*



PART NUMBER*	COLOR COMBO
592-3030-0XX	RED/GREEN-RED/GREEN
592-3131-0XX	YELLOW/GREEN-YELLOW/GREEN
592-3232-0XX	RED/YELLOW-RED/YELLOW
592-3031-0XX	RED/GREEN-YELLOW GREEN

\* Part Number with "F" suffix ending is a Lead (Pb) Free Product - RoHS Compliant.



RECOMMENDED PAD LAYOUT - MULTI-COLOR

Note: Custom color combinations available upon request. Check with factory for details.



Dialight Corporation  
1501 Route 34 South • Farmingdale, NJ 07727 USA  
Tel: (1) 732-919-3119 • Fax: (1) 732-751-5778 • www.dialight.com



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MDEF592B001\_B

**ABSOLUTE MAXIMUM RATINGS (TA= 25°C)**

Parameter	30	31	32
COLOR	Super Red/Green	Yellow/Green	Super Red/Yellow
POWER DISSIPATION	100mW	100mW	100mW
FORWARD DC CURRENT	30mA	30mA	30mA
PEAK FORWARD CURRENT (10 µsec)	500mA	500mA	500mA
OPERATING TEMPERATURE	-55°C to +100°C		
STORAGE TEMPERATURE	-55°C to +100°C		
SOLDERING TEMPERATURES CONVECTION IR VAPOR PHASE	235°C Peak, above 185°C for 90 sec., 215°C for 3 min.		

**OPERATING CHARACTERISTICS (TA= 25°C)**

Parameters	Part No.	Color	Min	Typ	Max	Units	Test Cond.
FORWARD VOLTAGE VF	30	Super Red/Green		2/2	2.6/2.6	V	IF=10mA
	31	Yellow/Green		2/2	2.6/2.6		
	32	Super Red/Yellow		2/2	2.6/2.6		
REVERSE VOLTAGE VR	30	Super Red/Green	5/5			V	IR=10µA
	31	Yellow/Green	5/5				
	32	Super Red/Yellow	5/5				
DOMINANT WAVELENGTH Dom	30	Super Red/Green		628/570		nm	
	31	Yellow/Green		586/570			
	32	Super Red/Yellow		528/586			
LUMINOUS INTENSITY Iv	30	Super Red/Green		6.5/8		mcd	IF=20mA
	31	Yellow/Green		6.5/8			
	32	Super Red/Yellow		6.5/6.5			
VIEWING ANGLE (2θ 1/2)	30	Super Red/Green		40/40		deg.	
	31	Yellow/Green		40/40			
	32	Super Red/Yellow		40/40			

DIALIGHT RESERVES THE RIGHT TO MAKE CHANGES AT ANY TIME IN ORDER TO SUPPLY THE BEST PRODUCT POSSIBLE.



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