



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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

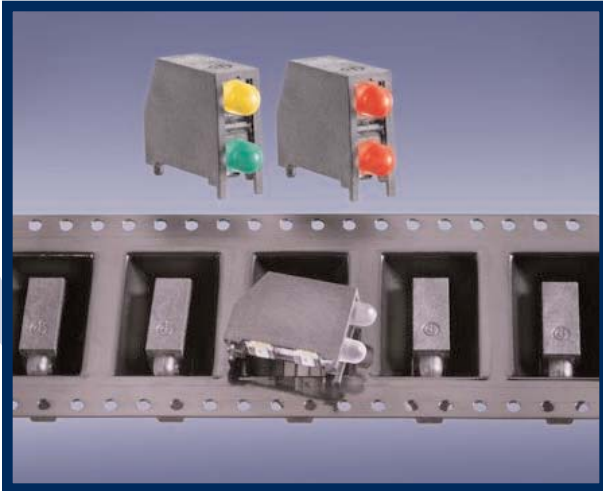
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





592 SERIES

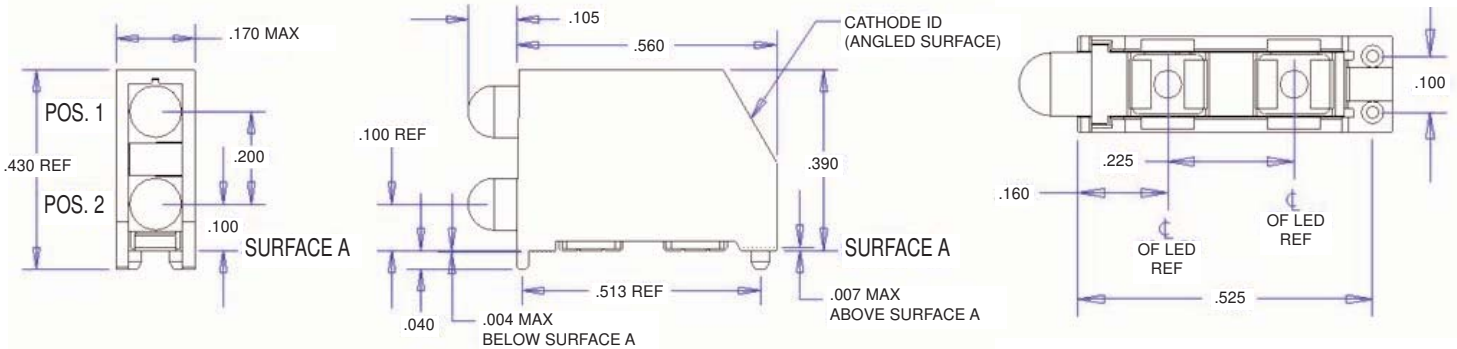
3mm Bi-level Prism^{fi} CBI^{fi} Surface Mount LED BRIGHT SINGLE COLOR



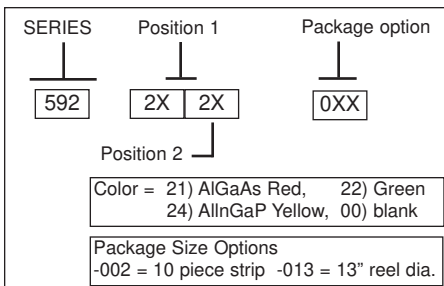
FEATURES / BENEFITS

- ▲ 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.

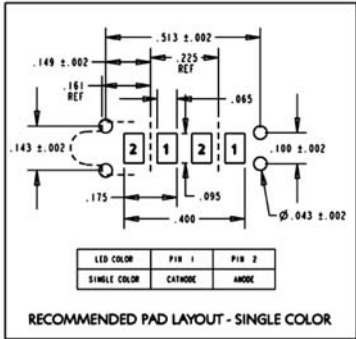
SPECIFICATIONS



PART NUMBER CODE



PART NUMBER	COLOR COMBO
592-2121-0XX	AlGaAs Red/AlGaAs Red
592-2222-0XX	GREEN/GREEN
592-2727-0XX	AllnGaP Yellow/AllnGaP Yellow



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



MDEF592D001_A



3mm Bi-level Prism^{fi} CBI^{fi}
Surface Mount LED, Bright Single Color

ABSOLUTE MAXIMUM RATINGS (TA= 25°C)

Parameter	21	22	27
COLOR	AlGaAs Red	Green	AllnGaP Yellow
POWER DISSIPATION (derate linearly from 25°C mW/°C)	100mA 0.8	100mA 0.6	100mA 0.6
FORWARD DC CURRENT	40mW	30mW	50mW
PEAK FORWARD CURRENT (10 µsec)	200mW	120mW	160mW
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	21	AlGaAs Red		1.8	2.4	V	IF=10mA
	22	Green		2.1	2.6		
	27	AllnGaP Yellow		2	2.4		
REVERSE VOLTAGE VR	21	AlGaAs Red	5			V	IF=10µA
	22	Green	5				
	27	AllnGaP Yellow	5				
DOMINANT WAVELENGTH Dom	21	AlGaAs Red		638		nm	
	22	Green		569			
	27	AllnGaP Yellow		595			
LUMINOUS INTENSITY Iv	21	AlGaAs Red		23.9		mcd	IF=10mA
	22	Green		9.1			
	27	AllnGaP Yellow		33.6			
VIEWING ANGLE (2Θ 1/2)	21	AlGaAs Red		40		deg.	
	22	Green		40			
	27	AllnGaP Yellow		40			

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



Dialight Corporation

1501 Route 34 South • Farmingdale, NJ 07727 USA
 Tel: (1) 732.919.3119 • Fax: (1) 732.751.5778 • www.dialight.com

