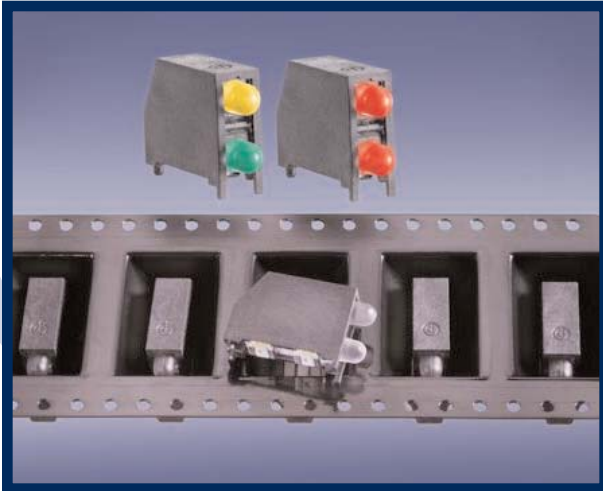




592 SERIES

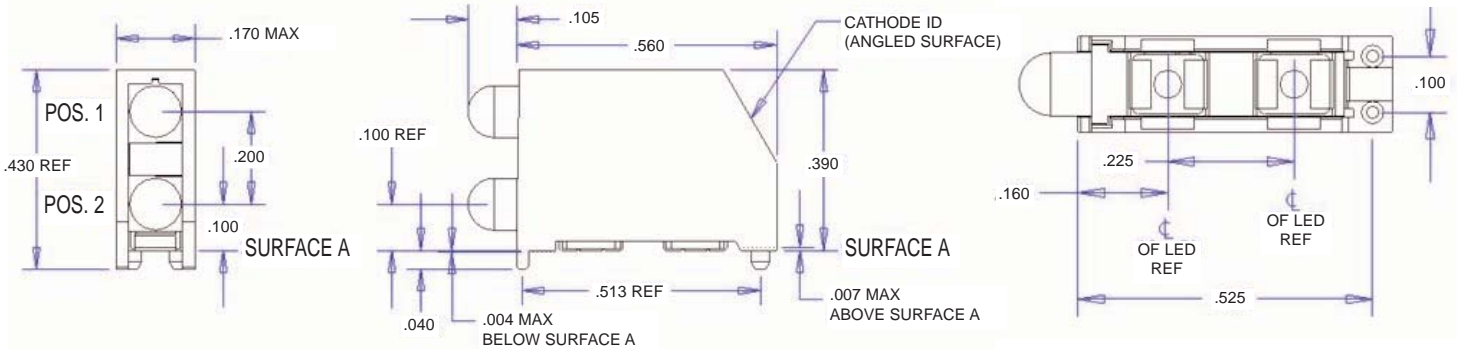
3mm Bi-level Prism^{fi} CBI^{fi} Surface Mount LED BRIGHT SINGLE COLOR



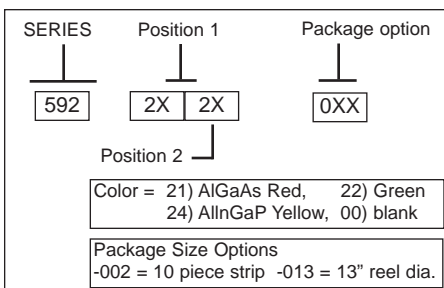
FEATURES / BENEFITS

- ▲ 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.

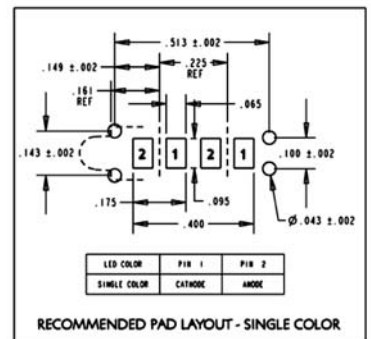
SPECIFICATIONS



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
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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.



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