



592 SERIES

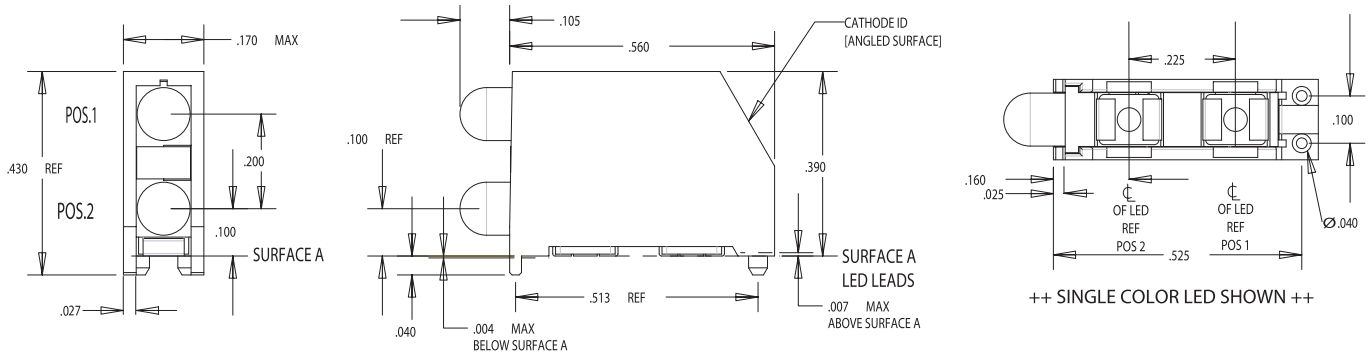
3mm Bi-level Prism® CBI® Surface Mount LED SINGLE COLOR



FEATURES / BENEFITS

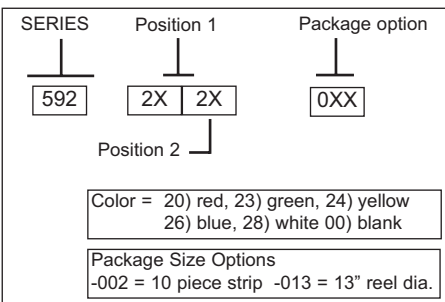
- ▲ Available as a Lead (Pb) Free product - RoHS Compliant.
- ▲ Incorporates latest LED technology, specifically designed for surface mounting.
- ▲ Compatible with automatic placement equipment.
- ▲ Compatible with surface mount reflow soldering processes.
- ▲ Black housing enhances contrast ratio.
- ▲ 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

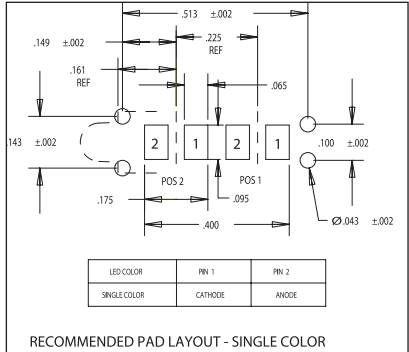


++ SINGLE COLOR LED SHOWN ++

PART NUMBER CODE*



| PART NUMBER* | COLOR COMBO |
|--------------|---------------|
| 592-2020-0XX | RED/RED |
| 592-2323-0XX | GREEN/GREEN |
| 592-2424-0XX | YELLOW/YELLOW |
| 592-2423-0XX | YELLOW/GREEN |
| 592-2324-0XX | GREEN/YELLOW |
| 592-2626-0XX | BLUE/BLUE |
| 592-2828-0XX | WHITE/WHITE |



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

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

Dialight Corporation

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**3mm Bi-level Prism® CBI®
Surface Mount LED, Single Color**

ABSOLUTE MAXIMUM RATINGS (TA= 25°C)

| Parameter | 20 | 23 | 24 | 26 | 28 |
|--|---|--------------|--------------|-----------------|-------------|
| COLOR | Red | Green | Yellow | Blue | White |
| POWER DISSIPATION (derate linearly from 25°C mA/°C) | 100mW 0.4 | 100mW 0.4 | 60mW 0.25 | 100mW 0.44 | 85mW 0.6 |
| FORWARD DC CURRENT | 30mA | 30mA | 20mA | 20mA | 20mA |
| PEAK FORWARD CURRENT (10 µsec) | 120mA | 120mA | 80mA | N/A | N/A |
| OPERATING TEMPERATURE | -55°C to +100°C | | | -40°C to +100°C | |
| STORAGE TEMPERATURE | -55°C to +100°C | | | -40°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 | 20 | red | | 2.0 | 2.6 | V | IF=10mA |
| | 23 | green | | 2.0 | 2.6 | | |
| | 24 | yellow | | 2.0 | 2.6 | | |
| | 26 | blue | | 3.5 | 4.2 | | IF=20mA |
| | 28 | white | | 3.5 | 4.2 | | |
| REVERSE VOLTAGE VR | 20 | red | 5 | | | V | IR=10µA |
| | 23 | green | 5 | | | | |
| | 24 | yellow | 5 | | | | |
| | 26 | blue | N/A | | | | |
| | 28 | white | N/A | | | | |
| DOMINANT WAVELENGTH Dom | 20 | red | | 628 | | nm | IF=20mA |
| | 23 | green | | 570 | | | |
| | 24 | yellow | | 590 | | | |
| | 26 | blue | | 428 | | | |
| | 28 | white | | X .29 .32 .365 Y .22 .31 .42 | | | |
| LUMINOUS INTENSITY Iv | 20 | red | | 5 | | mcd | IF=10mA |
| | 23 | green | | 4 | | | |
| | 24 | yellow | | 5 | | | |
| | 26 | blue | | 6 | | | |
| | 28 | white | | 19 | | | |
| VIEWING ANGLE (2θ 1/2) | 20 | red | | 40 | | deg. | |
| | 23 | green | | 40 | | | |
| | 24 | yellow | | 40 | | | |
| | 26 | blue | | 40 | | | |
| | 28 | white | | 40 | | | |

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



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