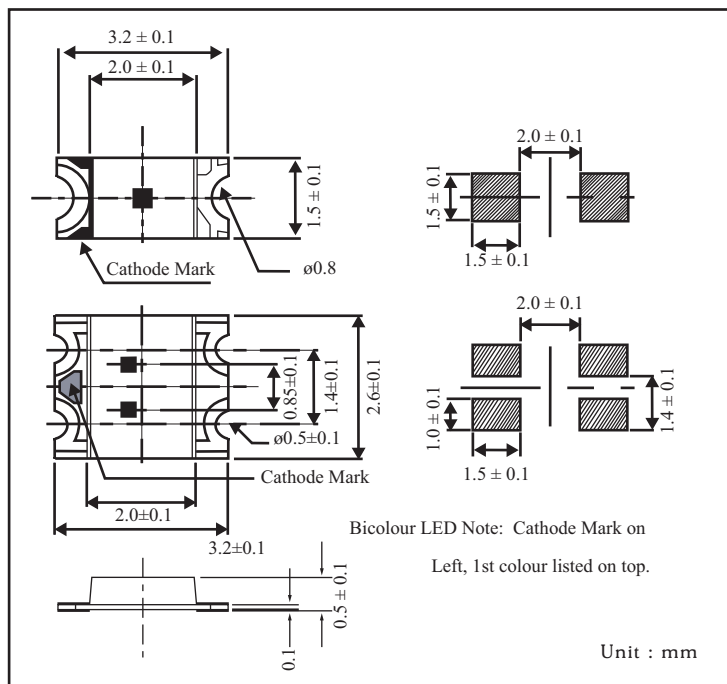


# ULTRA THIN LEDs FOR MEMBRANE SWITCHES

## Features and Applications:

- Reduce spacer thickness and/or eliminate embossing
- 8mm tape & reel for automated pick & place machines
- 0.5mm high
- Overall size 3.2 x 1.6 x 0.5mm
- Available from stock

## Package Outline Dimensions & Recommended Adhesive Pattern:



| Current                                      | Rating           |
|----------------------------------------------|------------------|
| Reverse Voltage (VR)                         | 5 V              |
| Forward Current (IF)                         | 25 mA            |
| Operating Temperature (Topr)                 | -40~+85 °C       |
| Storage Temperature (Tst)                    | -40~+90 °C       |
| Soldering Temperature (Tsol)                 | 260 °C for 5 sec |
| Electrostatic Discharge (ESD)                | 2000 V           |
| Power Dissipation (Pd)                       | 60 mW            |
| Peak Forward Current (Duty 1/10 @ 1KHz) (IF) | 160 mA           |

## Electro-Optical Characteristics (Ta=25 °C):

| Part Number | Lighting Colour | Die Material | VF      |         |         | Peak Wavelength typ (nm) | Dominant Wavelength typ (nm) | IV      |           |           | Viewing Angle (deg) |
|-------------|-----------------|--------------|---------|---------|---------|--------------------------|------------------------------|---------|-----------|-----------|---------------------|
|             |                 |              | IF (mA) | typ (V) | max (V) |                          |                              | IF (mA) | min (mcd) | typ (mcd) |                     |
| ZUR55W-05   | Red             | AlGaInP      | 20      | 2.0     | 2.4     | 632                      | 624                          | 20      | 14        | 37        | 140                 |
| ZUO55W-05   | Orange          | AlGaInP      | 20      | 2.0     | 2.4     | 611                      | 605                          | 20      | 11        | 30        | 140                 |
| ZUY55W-05   | Yellow          | AlGaInP      | 20      | 2.0     | 2.4     | 591                      | 589                          | 20      | 14        | 38        | 140                 |
| ZMG55W-05   | Green           | AlGaInP      | 20      | 2.0     | 2.4     | 575                      | 573                          | 20      | 9         | 14        | 140                 |
| ZUB55W-05   | Blue            | InGaN        | 20      | 2.0     | 2.4     |                          | 470                          | 20      | 2.6       | 7         | 140                 |
| ZPW55D-05   | White           | InGaN        | 20      | 2.0     | 2.4     |                          |                              | 20      | 45        | 112       | 140                 |
| BURMG57W-05 | Red             | AlGaInP      | 20      | 2.0     | 2.4     |                          | 624                          | 20      | 14        | 37        | 140                 |
|             | Green           | AlGaInP      | 20      | 2.0     | 2.4     |                          | 573                          | 20      | 9         | 14        | 140                 |
| BUYMG57W-05 | Yellow          | AlGaInP      | 20      | 2.0     | 2.4     |                          | 589                          | 20      | 14        | 38        | 140                 |
|             | Green           | AlGaInP      | 20      | 2.0     | 2.4     |                          | 573                          | 20      | 9         | 14        | 140                 |
| BURUY57W-05 | Red             | AlGaInP      | 20      | 2.0     | 2.4     |                          | 624                          | 20      | 14        | 37        | 140                 |
|             | Yellow          | AlGaInP      | 20      | 2.0     | 2.4     |                          | 605                          | 20      | 14        | 130       | 140                 |

Specification subject to change without prior notice

## NICOMATIC (UK) LTD

Unit 8, Campus Five, Third Avenue, Letchworth, Hertfordshire SG6 2JF England

Tel: +44(0)1462 677886 Fax: +44(0)1462 677499

email: sales@nicomatic.co.uk http: //www.nicomatic.co.uk

Dec 07/02