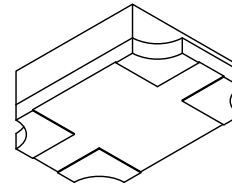
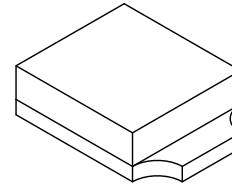
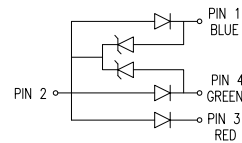
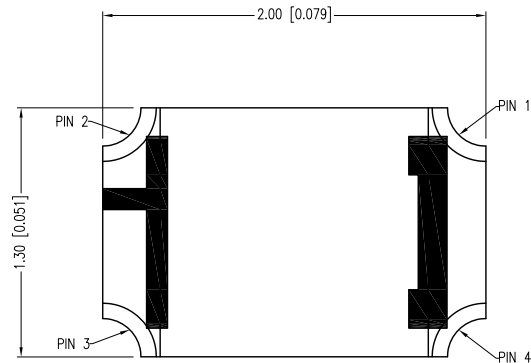


PRELIMINARY IN P/N DIR



| ELECTRO-OPTICAL CHARACTERISTICS Ta=25°C If=20mA |                      |             |             |          |           |
|-------------------------------------------------|----------------------|-------------|-------------|----------|-----------|
| PARAMETER                                       | MIN                  | TYP         | MAX         | UNITS    | TEST COND |
| PEAK WAVELENGTH (R/G/B)                         |                      | 632/520/468 |             | nm       |           |
| FORWARD VOLTAGE (R/G/B)                         | 1.6/2.7/2.7          |             | 2.4/3.9/3.9 | Vf       |           |
| REVERSE VOLTAGE                                 |                      |             | 5.0         | Vr       | Ir=100μA  |
| AXIAL INTENSITY (R/G/B)                         | 45/112.5/28.5        |             | 285/360/180 | mcd      | If=20mA   |
| VIEWING ANGLE                                   |                      | 140         |             | 2x theta |           |
| EMITTED COLOR:                                  | RED/GREEN/BLUE       |             |             |          |           |
| LENS FINISH:                                    | MILKY WHITE DIFFUSED |             |             |          |           |

## LIMITS OF SAFE OPERATION AT 25°C

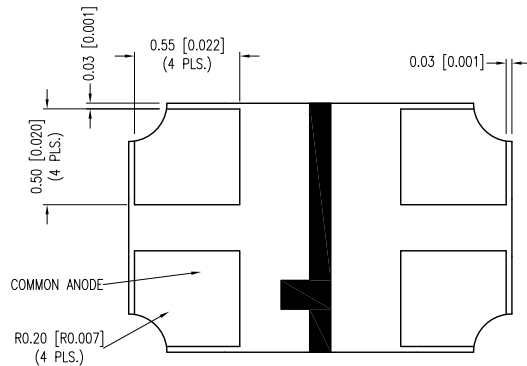
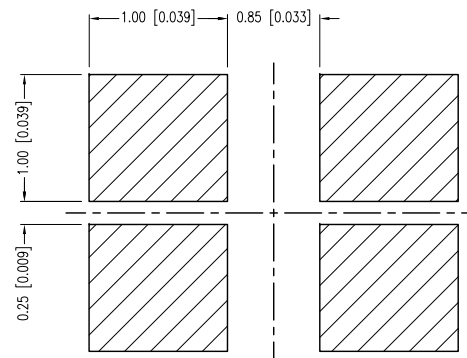
| PARAMETER                     | MAX        | UNITS |
|-------------------------------|------------|-------|
| PEAK FORWARD CURRENT* (R/G/B) | 80/80/80   | mA    |
| STEADY CURRENT (R/G/B)        | 20/20/20   | mA    |
| POWER DISSIPATION (R/G/B)     | 72/78/78   | mW    |
| DERATE FROM 25°C              | -1.2       | mW/°C |
| OPERATING TEMP.               | -30 TO +80 | °C    |
| STORAGE TEMP.                 | -40 TO +85 | °C    |

\* t&lt;10μs

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 3 STANDARDS

CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

## RECOMMENDED SOLDER PAD LAYOUT



\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= <sup>+DECIMAL PRECISION</sup> <sub>-0.00</sub> MAX= <sup>+0.00</sup> <sub>-DECIMAL PRECISION</sub>

UNCONTROLLED DOCUMENT

|                 |              |
|-----------------|--------------|
| DATE: 09.18.13  | DRAWN BY: MA |
| PAGE: 2 OF 2    | CHKD BY: RU  |
| SCALE: NTS      | APRVD BY: -- |
| UNIT: mm [INCH] | (Pb)         |