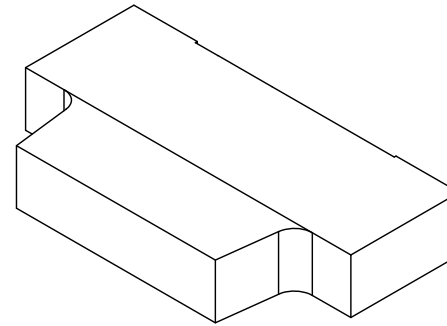
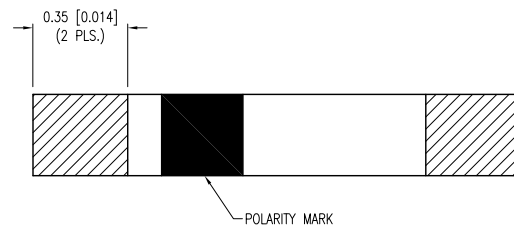
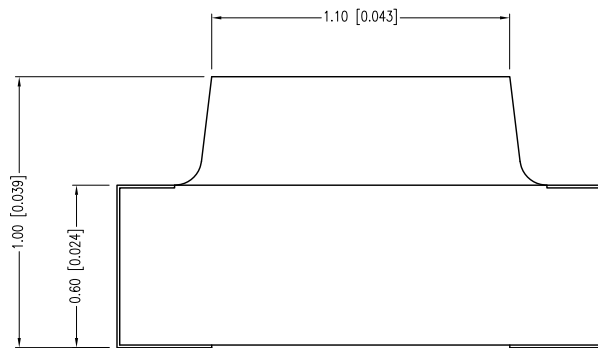
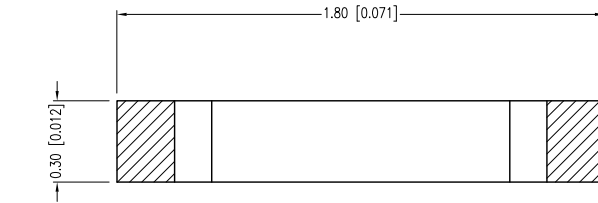
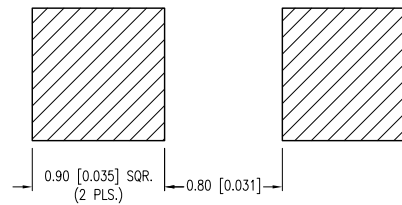




## RECOMMENDED SOLDER PAD LAYOUT



| ELECTRO-OPTICAL CHARACTERISTICS Ta=25°C If=5mA |             |     |      |          |           |
|------------------------------------------------|-------------|-----|------|----------|-----------|
| PARAMETER                                      | MIN         | TYP | MAX  | UNITS    | TEST COND |
| PEAK WAVELENGTH                                |             | 636 |      | nm       |           |
| FORWARD VOLTAGE                                | 1.70        |     | 2.20 | Vf       | Ir=50μA   |
| REVERSE VOLTAGE                                |             |     | 5.0  | Vr       | If=5mA    |
| AXIAL INTENSITY                                | 72          |     | 180  | mcd      |           |
| VIEWING ANGLE                                  |             | 120 |      | 2x theta |           |
| EMITTED COLOR:                                 | RED         |     |      |          |           |
| LENS FINISH:                                   | WATER CLEAR |     |      |          |           |

## LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 60         | mA    |
| STEADY CURRENT        | 25         | mA    |
| POWER DISSIPATION     | 60         | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -40 TO +85 | °C    |
| STORAGE TEMP.         | -40 TO +85 | °C    |

\* t&lt;10μs

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 2 STANDARDS

\*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



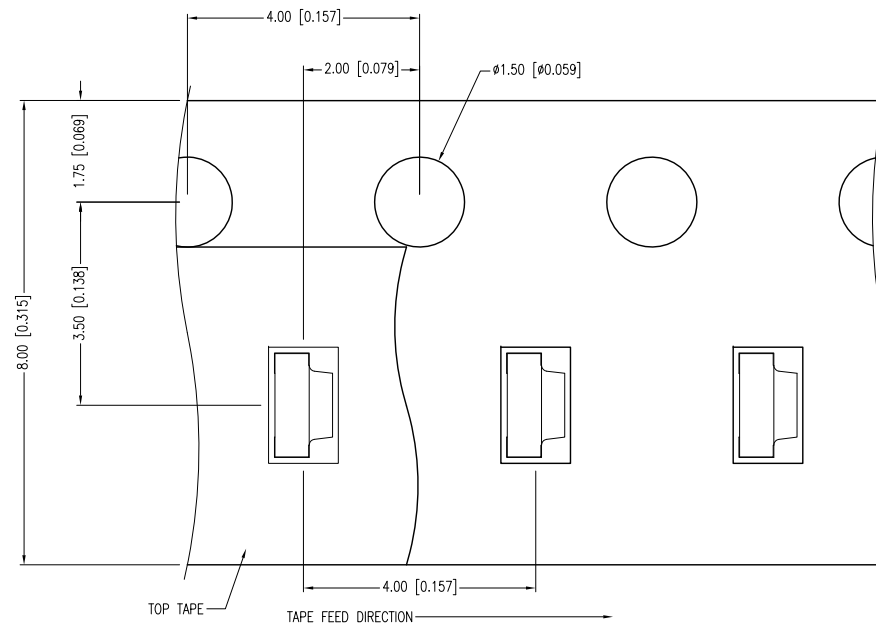
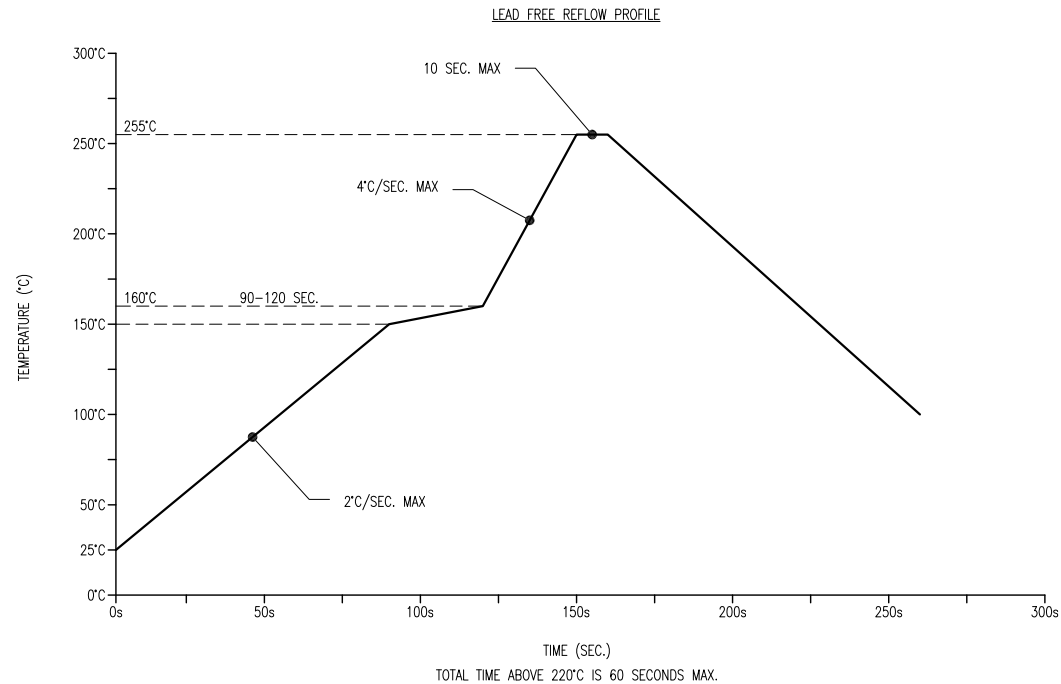
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MEMBER OF ITW PHOTONICS GROUP

QUASARBRITE 0.3x1.80mm PCB RIGHT ANGLE SMT LED, AlInGaP 636nm SUPER RED, WATER CLEAR.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*

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|        |           |           |    |
|--------|-----------|-----------|----|
| DATE:  | 07.16.12  | DRAWN BY: | AB |
| PAGE:  | 1 OF 2    | CHKD BY:  | SS |
| SCALE: | NTS       | APRVD BY: | SS |
| UNIT:  | mm [INCH] |           | Ⓢ  |

NOTES:

1. 3,000 PER REEL.
2. THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

\*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.=  $\begin{matrix} +\text{DECIMAL PRECISION} \\ -0.00 \end{matrix}$  MAX.=  $\begin{matrix} +0.00 \\ -\text{DECIMAL PRECISION} \end{matrix}$

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