

| ELECTRO-OPTICAL CHARAC  | CTERISTICS TA = 25°C | $I_f = 20 \text{mA}$ |          |                       |
|-------------------------|----------------------|----------------------|----------|-----------------------|
| PARAMETER               | TYP                  | MAX                  | UNITS    | TEST COND             |
| PEAK WAVELENGTH (R/G/   | B) 660/585/590       |                      | nm       |                       |
| FORWARD VOLTAGE (R/G/   | B) 1.7/2.2/2.0       | 2.2/2.6/2.8          | $V_{f}$  |                       |
| REVERSE VOLTAGE (R/G/E  | 3) 4.0/5.0/5.0       |                      | $V_r$    | I <sub>r</sub> =100uA |
| AXIAL INTENSITY (R/G/B) | 110/30/80            |                      | mcd      | I <sub>f</sub> =20mA  |
| VIEWING ANGLE           | 120                  |                      | 2x theta |                       |
| EMITTED COLOR:          | RED/GREEN/YELLOW     |                      |          |                       |
| EPOXY LENS FINISH:      | WATER CLEAR LENS     |                      |          |                       |

| LIMITS OF SAFE OPERATION AT 25°C | PER CHIP    |            |
|----------------------------------|-------------|------------|
| PARAMETER                        | MAX         | UNITS      |
| PEAK FORWARD CURRENT* (R/G/Y)    | 200/160/160 | mA         |
| STEADY CURRENT (R/G/Y)           | 30/25/30    | mA         |
| POWER DISSIPATION (R/G/Y)        | 110/100/100 | mW         |
| DERATE FROM 25°C                 | -1.2        | mW/*C      |
| OPERATING TEMP.                  | -40 TO +85  | •C         |
| STORAGE TEMP.                    | -40 TO +85  | •C         |
| SOLDERING TEMP.                  | +260        | .c         |
| 2.0mm FROM BODY                  |             | 3 SEC. MAX |
| 1.1.10.0                         |             |            |

<sup>\*</sup> t<10uS

## NOTES:

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

CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 2 STANDARDS

| 0.80 [0.031]- | - | 1.90 [0.075] | <br>-0.80 [0.031] |
|---------------|---|--------------|-------------------|
| 1             |   |              | <br>              |
| 0.75 [0.030]  |   |              |                   |
| 0.70 [0.028]  |   |              | J                 |
| 0.75 [0.030]  |   |              |                   |
|               |   |              |                   |

\*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= +DECIMAL PRECISION UNCONTROLLED DOCUMENT



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2.8mm x 3.2mm SML /W REFLECTOR CUP, DUAL CHIP, 660nm/565nm/590nm LED, WATER CLEAR LENS, 2k

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

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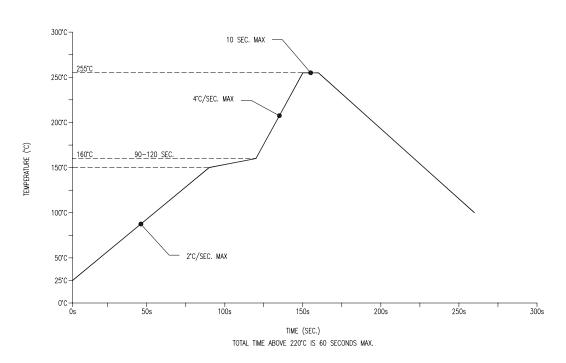
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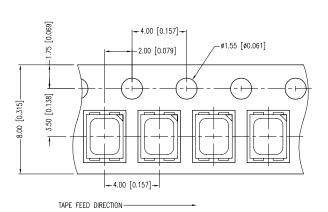
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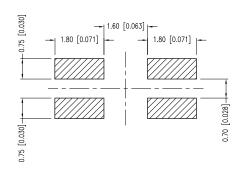
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## LEAD FREE REFLOW PROFILE





## RECOMMENDED SOLDER PAD LAYOUT



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