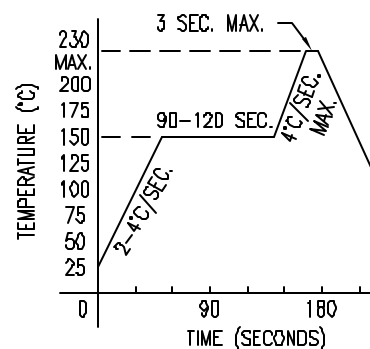
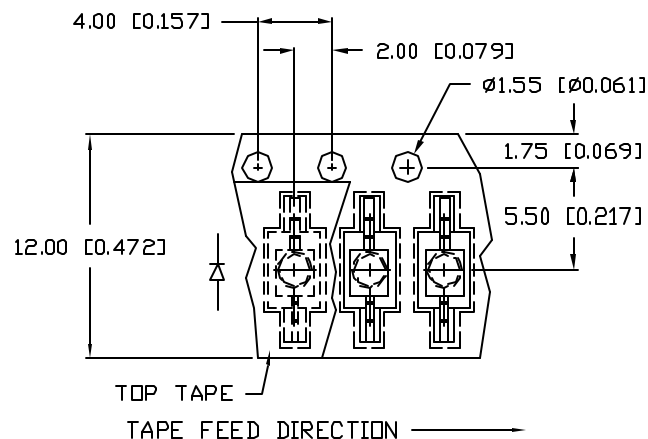
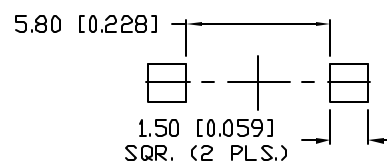


## REFLOW PROFILE



## RECOMMENDED SOLDER PAD LAYOUT

ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$ 

| PARAMETER         | MIN | TYP      | MAX   | UNITS   | TEST COND           |
|-------------------|-----|----------|-------|---------|---------------------|
| PEAK WAVELENGTH   |     | 940      |       | nm      |                     |
| FORWARD VOLTAGE   |     | 1.2      | 1.5   | $V_f$   | $I_f=20\text{mA}$   |
|                   |     | 1.4      | 1.85* | $V_f$   | $I_f=100\text{mA}$  |
|                   |     | 2.6      | 4.0*  | $V_f$   | $I_f=1.0\text{A}$   |
| REVERSE VOLTAGE   | 5.0 |          |       | $V_r$   | $I_f=10\mu\text{A}$ |
| RADIANT INTENSITY | 3.0 | 5.0      |       | mW/SR   | $I_f=20\text{mA}$   |
|                   |     | 25*      |       | mW/SR   | $I_f=100\text{mA}$  |
|                   |     | 260*     |       | mW/SR   | $I_f=1.0\text{A}$   |
| HALF ANGLE        |     | $\pm 25$ |       | degrees |                     |

EPOXY LENS FINISH: WATER CLEAR

\*  $t_p=100\mu\text{s}$ ,  $t_p/T=0.01$ LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$ 

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 1000       | mA                   |
| STEADY CURRENT                 | 65         | mA                   |
| POWER DISSIPATION              | 130        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.6       | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       | -40 TO +85 | $^\circ\text{C}$     |

\*  $t<100\mu\text{s}$ 

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

REV.

PART NUMBER

OED-ELA2127-TR21

1.9mm ROUND IR EMITTER,  
AXIAL YOKE LEAD, TAPE AND REEL.

## CONFIDENTIAL INFORMATION

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## RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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