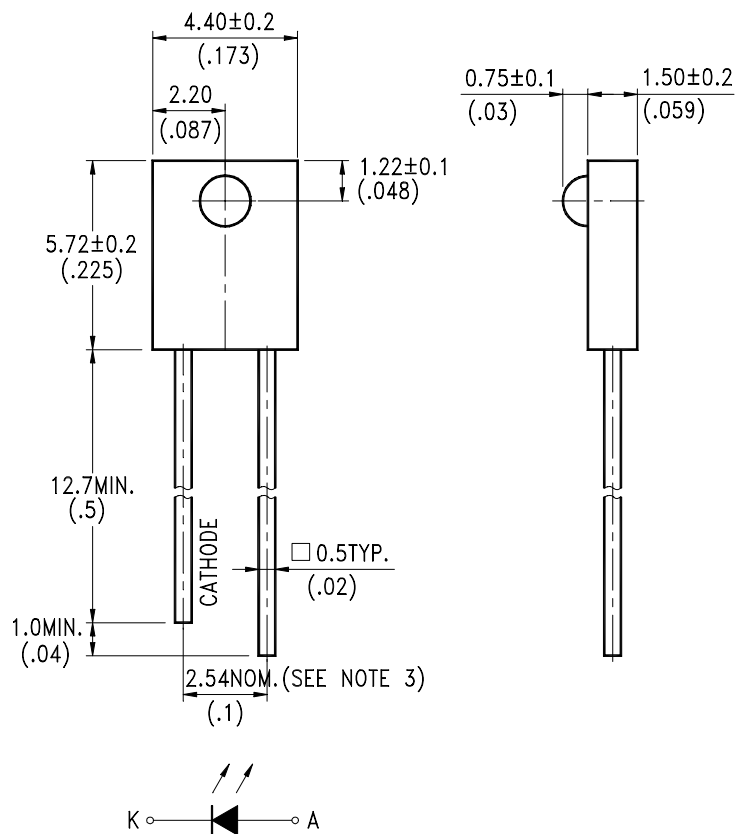


FEATURES

- * SELECTED TO SPECIFIC ON-LINE INTENSITY AND RADIANT INTENSITY RANGES
- * LOW COST MINIATURE PLASTIC SIDE LOOKING PACKAGE
- * MECHANICALLY AND SPECTRALLY MATCHED TO THE LTR-301 SERIES OF PHOTOTRANSISTOR

PACKAGE DIMENSIONS



NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm (.010") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

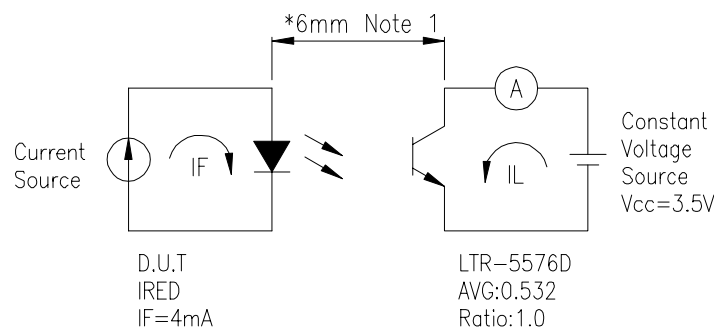
ABSOLUTE MAXIMUM RATINGS AT TA=25

| PARAMETER | MAXIMUM RATING | UNIT |
|--|-------------------|------|
| Power Dissipation | 75 | mW |
| Peak Forward Current (300pps, 10 μ s pulse) | 1 | A |
| Continuous Forward Current | 50 | mA |
| Reverse Voltage | 5 | V |
| Operating Temperature Range | -40 to + 85 | |
| Storage Temperature Range | -55 to + 100 | |
| Lead Soldering Temperature [1.6mm(.063") From Body] | 260 for 5 Seconds | |

ELECTRICAL / OPTICAL CHARACTERISTICS AT TA=25

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST COND. | BIN NO. | Color Marking |
|---|----------------|------|------|------|------|---|---------|---------------|
| Peak Emission Wavelength | P | | 940 | | nm | I _F = 20mA | | |
| Spectral Line Half-Width | | | 50 | | nm | I _F = 20mA | | |
| Forward Voltage | V _F | | 1.2 | 1.6 | V | I _F = 20mA | | |
| Reverse Current | I _R | | | 100 | μA | V _R = 5V | | |
| Average Axis Intensity (Light Current) Setting of LITE-ON Production (I _{L1} +I _{L2})/2) | I _L | 0.55 | | 0.65 | mA | I _F = 4mA V _{CC} =3.5V | BIN F | Red |
| | | 0.65 | | 0.75 | | | BIN G | Gold |
| | | 0.75 | | 0.85 | | | BIN H | Silver |
| | | 0.85 | | 0.95 | | | BIN I | Yellow |
| | | 0.95 | | 1.05 | | | BIN J | Purple |
| | | 1.05 | | 1.15 | | | BIN K | Orange |
| | | 1.15 | | 1.25 | | | BIN L | Pink |
| | | 1.25 | | 1.35 | | | BIN M | Brown |
| Average Axis Intensity (Light Current) Q.C Limits (I _{L1} +I _{L2})/2) | I _L | 0.44 | | 0.78 | mA | I _F = 4mA V _{CC} =3.5V | BIN F | Red |
| | | 0.52 | | 0.90 | | | BIN G | Gold |
| | | 0.60 | | 1.02 | | | BIN H | Silver |
| | | 0.68 | | 1.14 | | | BIN I | Yellow |
| | | 0.76 | | 1.26 | | | BIN J | Purple |
| | | 0.84 | | 1.38 | | | BIN K | Orange |
| | | 0.92 | | 1.50 | | | BIN L | Pink |
| | | 1.00 | | 1.62 | | | BIN M | Brown |
| Viewing Angle (See FIG.6) | 2 1/2 | | 40 | | deg. | | | |

INFRARED AXIS INTENSITY TEST METHOD



NOTE: 1. Lead frame to Lead frame

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

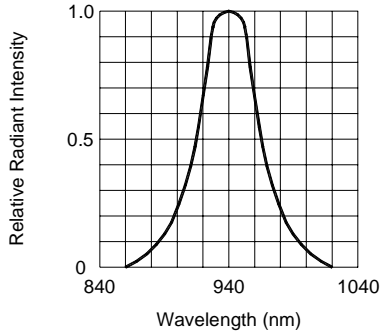


FIG.1 SPECTRAL DISTRIBUTION

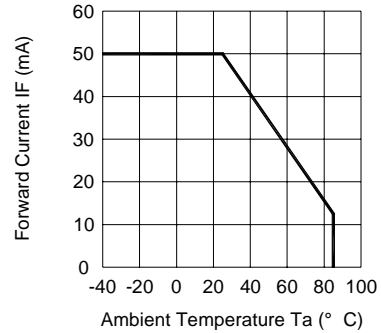


FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

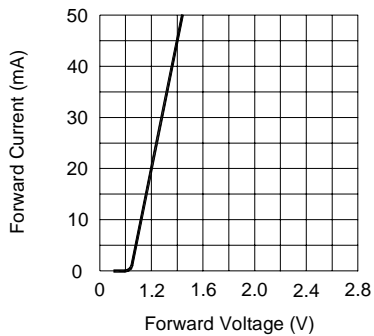


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

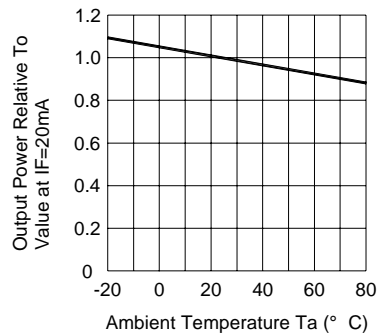


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

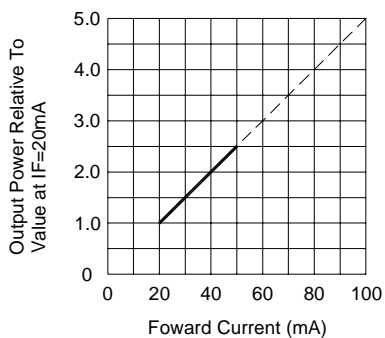


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

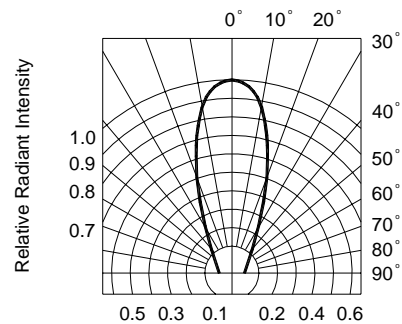


FIG.6 RADIATION DIAGRAM