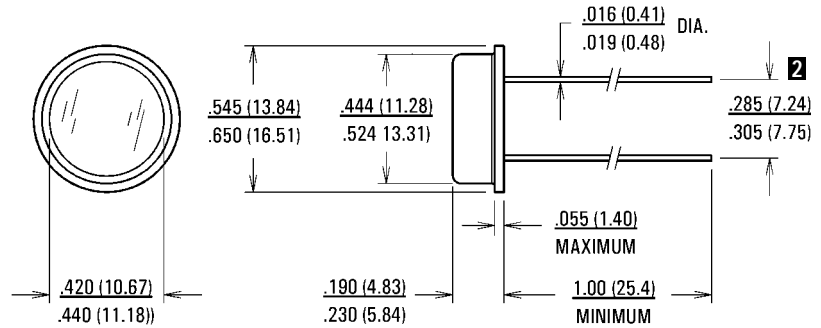


## PACKAGE DIMENSIONS inch (mm)



## ABSOLUTE MAXIMUM RATINGS

| Parameter   | Symbol                           | Rating     | Units       |
|---|----------------------------------|------------|-------------|
| Continuous Power Dissipation<br>Derate Above 25°C | $P_D$<br>$\Delta P_D / \Delta T$ | 500<br>10  | mW<br>mW/°C |
| Temperature Range<br>Operating and Storage        | $T_A$                            | -40 to +75 | °C          |

## ELECTRO-OPTICAL CHARACTERISTICS @ 25°C (16 hrs. light adapt, min.) 4

| Part Number | Resistance (Ohms) 3 6 |       |       |                |       |      | Material Type | Sensitivity ( $\gamma$ , typ.)<br><br><small>OG (R10/R100)<br/>LOG (100/10)</small> | Maximum Voltage (V, pk) | Response Time @ 1 fc (ms, typ.) |            |
|-------------|-----------------------|-------|-------|----------------|-------|------|---------------|---|-------------------------|---------------------------------|------------|
|             | 10 lux<br>2850 K      |       |       | 2 fc<br>2850 K | Dark  |      |               |   |                         | Rise (1-1/e)                    | Fall (1/e) |
|             | Min.                  | Typ.  | Max.  | Typ.           | Min.  | sec. |               |   |                         |                                 |            |
| VT50N1      | 4 k                   | 8 k   | 12 k  | 4 k            | 200 k | 5    | Ø             | 0.75  | 200                     | 78                              | 8          |
| VT50N2      | 8 k                   | 16 k  | 24 k  | 8 k            | 500 k | 5    | Ø             | 0.75  | 200                     | 78                              | 8          |
| VT50N3      | 16 k                  | 32 k  | 48 k  | 16 k           | 1 M   | 5    | Ø             | 0.80  | 300                     | 78                              | 8          |
| VT53N1      | 16 k                  | 32 k  | 48 k  | 16 k           | 1 M   | 5    | 3             | 0.85  | 200                     | 35                              | 5          |
| VT53N2      | 32 k                  | 76 k  | 96 k  | 38 k           | 2 M   | 5    | 3             | 0.85  | 200                     | 35                              | 5          |
| VT53N3      | 66 k                  | 132 k | 200 k | 66 k           | 3 M   | 5    | 3             | 0.85  | 300                     | 35                              | 5          |

See page 13 for notes.