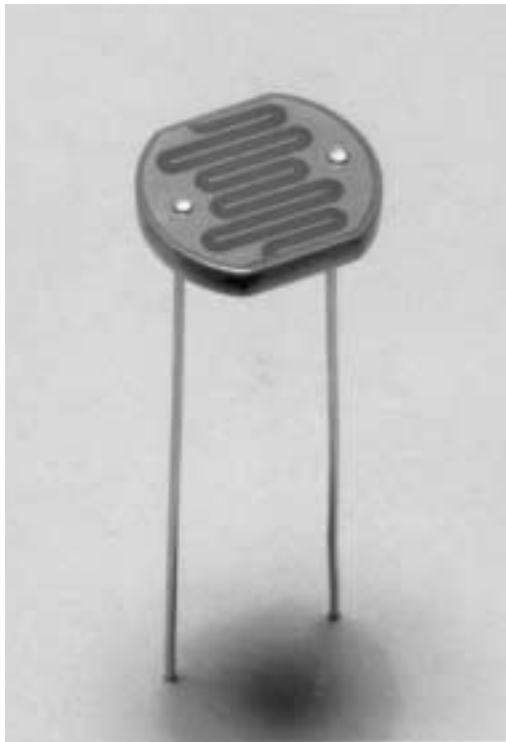
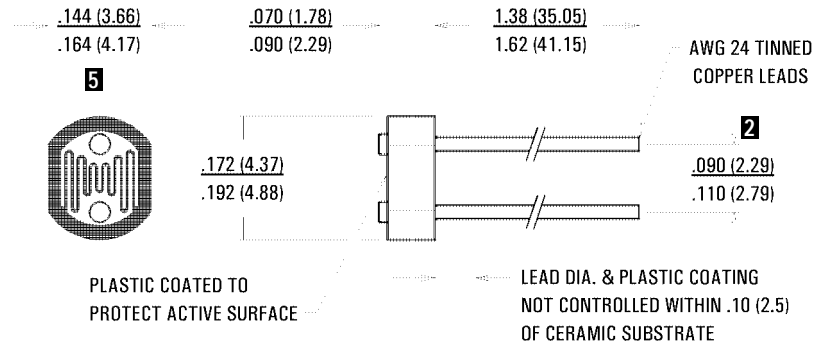


# Photoconductive Cell

# VT900 Series



## PACKAGE DIMENSIONS inch (mm)



## ABSOLUTE MAXIMUM RATINGS

| Parameter   | Symbol                           | Rating     | Units       |
|---|----------------------------------|------------|-------------|
| Continuous Power Dissipation<br>Derate Above 25°C | $P_D$<br>$\Delta P_D / \Delta T$ | 80<br>1.6  | 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>$\frac{\text{LOG}(R_{10}/R_{100})}{\text{LOG}(100/10)}$ | 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. |               |   |                         |                                 |            |   |
| VT9ØN1      | 6 k                   | 12 k  | 18 k   | 6 k            | 200 k | 5    | Ø             | 0.80  | 100                     | 78                              | 8          |   |
| VT9ØN2      | 12 k                  | 24 k  | 36 k   | 12 k           | 500 k | 5    | Ø             | 0.80  | 100                     | 78                              | 8          |   |
| VT9ØN3      | 25 k                  | 50 k  | 75 k   | 25 k           | 1 M   | 5    | Ø             | 0.85  | 100                     | 78                              | 8          |   |
| VT9ØN4      | 50 k                  | 100 k | 150 k  | 50 k           | 2 M   | 5    | Ø             | 0.90  | 100                     | 78                              | 8          |   |
| VT93N1      | 12 k                  | 24 k  | 36 k   | 12 k           | 300 k | 5    | 3             | 0.90  | 100                     | 35                              | 5          |   |
| VT93N2      | 24 k                  | 48 k  | 72 k   | 24 k           | 500 k | 5    | 3             | 0.90  | 100                     | 35                              | 5          |   |
| VT93N3      | 50 k                  | 100 k | 150 k  | 50 k           | 500 k | 5    | 3             | 0.90  | 100                     | 35                              | 5          |   |
| VT93N4      | 100 k                 | 200 k | 300 k  | 100 k          | 500 k | 5    | 3             | 0.90  | 100                     | 35                              | 5          |   |
| VT935G      |                       |       |        |                |       |      |               |   |                         |                                 |            |   |
| 1           | Group A               | 10 k  | 18.5 k | 27 k           | 9.3 k | 1 M  | 5             | 3   | 0.90                    | 100                             | 35         | 5 |
|             | Group B               | 20 k  | 29 k   | 38 k           | 15 k  | 1 M  | 5             | 3   | 0.90                    | 100                             | 35         | 5 |
|             | Group C               | 31 k  | 40.5 k | 50 k           | 20 k  | 1 M  | 5             | 3   | 0.90                    | 100                             | 35         | 5 |

See page 13 for notes.

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