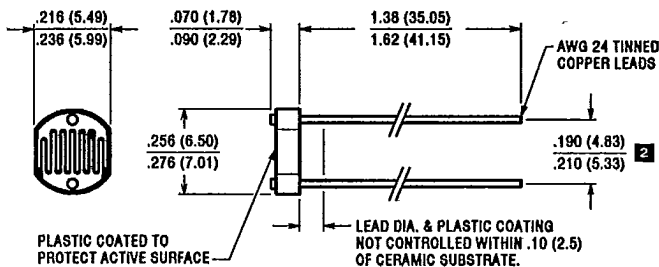


T-41-41

# LIGHT DEPENDENT RESISTOR

# VT800 Series

## PACKAGE DIMENSIONS Inch (mm)



## ABSOLUTE MAXIMUM RATINGS

| PARAMETER                                          | SYMBOL                           | RATING      | UNITS       |
|----------------------------------------------------|----------------------------------|-------------|-------------|
| CONTINUOUS POWER DISSIPATION<br>DERATE ABOVE 25° C | $P_D$<br>$\Delta P_D / \Delta T$ | 175<br>3.5  | mW<br>mW/°C |
| TEMPERATURE RANGE<br>OPERATING AND STORAGE         | $T_A$                            | - 50 to +75 | °C          |

## ELECTRO-OPTICAL CHARACTERISTICS @ 25° C ( 16 HRS. LIGHT ADAPT, MIN. )

| Part<br>Number * | Old Part<br>Number | Resistance (Ohms) 3 |      |      |                  |      |      |      |      | Peak<br>Spectral<br>Response |      | Sensitivity<br>(γ, typ.)<br>LOG (R10/R100)<br>LOG (100/10) | V <sub>Max</sub><br>(V, pk) | Response<br>Time @ 1 fc<br>(ms, typ.) |               |
|------------------|--------------------|---------------------|------|------|------------------|------|------|------|------|------------------------------|------|------------------------------------------------------------|-----------------------------|---------------------------------------|---------------|
|                  |                    | 2 fc<br>2850 K      |      |      | 10 lux<br>2850 K |      |      | DARK |      |                              |      |                                                            |                             | Rise<br>(1-1/e)                       | Fall<br>(1/e) |
|                  |                    | Min.                | Typ. | Max. | Min.             | Typ. | Max. | Min. | sec. | (nm)                         | Type |                                                            |                             |                                       |               |
| VT83A334         | VT835              | 220k                | 330k | 440k | —                | 700k | —    | 100M | 5    | 550                          | 3    | 1.0                                                        | 300                         | 35                                    | 5             |
| VT83F603         | VT83D              | 20k                 | 60k  | 100k | —                | 120k | —    | 10M  | 5    | 550                          | 3    | 0.95                                                       | 200                         | 35                                    | 5             |
| VT83A333         | VT833              | 22k                 | 33k  | 44k  | —                | 75k  | —    | 15M  | 5    | 550                          | 3    | 0.95                                                       | 300                         | 35                                    | 5             |
| VT83E303         | —                  | —                   | 30k  | —    | 25k              | 63k  | 100k | 5M   | 10   | 550                          | 3    | 0.95                                                       | 100                         | 35                                    | 5             |
| VT83D223         | —                  | 11k                 | 22k  | 33k  | —                | 40k  | —    | 5M   | 10   | 550                          | 3    | 0.9                                                        | 200                         | 35                                    | 5             |
| VT83C173         | —                  | —                   | 17k  | —    | 20k              | 35k  | 50k  | 20M  | 10   | 550                          | 3    | 0.95                                                       | 200                         | 35                                    | 5             |
| VT83F902         | VT83C              | 3k                  | 9k   | 15k  | —                | 18k  | —    | 1M   | 5    | 550                          | 3    | 0.95                                                       | 200                         | 35                                    | 5             |
| VT83F302         | VT83B              | 1k                  | 3k   | 5k   | —                | 6k   | —    | 100k | 5    | 550                          | 3    | 0.95                                                       | 100                         | 35                                    | 5             |
| VT84A901         | VT841L             | 0.6k                | 0.9k | 1.2k | —                | 1.8k | —    | 500k | 5    | 675                          | 4    | 0.85                                                       | 100                         | 35                                    | 18            |
| VT87A302         | VT871              | 2k                  | 3k   | 4k   | —                | 6k   | —    | 10M  | 5    | 615                          | 7    | 0.8                                                        | 100                         | 70                                    | 15            |

\* See page 11 for notes.

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