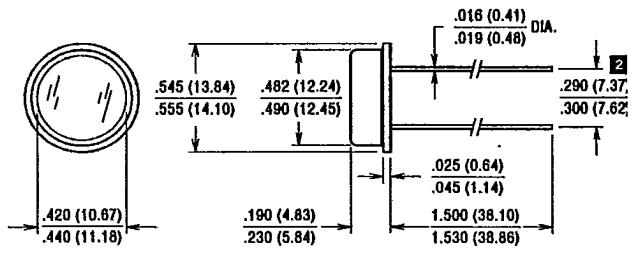
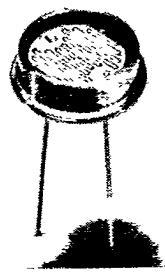


T-41-41

VCT 620000 6090E02 33E D

LIGHT DEPENDENT RESISTOR VT500 Series

PACKAGE DIMENSIONS Inch (mm)



ABSOLUTE MAXIMUM RATINGS

| PARAMETER | SYMBOL | RATING | UNITS |
|--|----------------------------------|-------------|-------------|
| CONTINUOUS POWER DISSIPATION DERATE ABOVE 25° C | P_D $\Delta P_D / \Delta T$ | 500 10 | mW mW/°C |
| TEMPERATURE RANGE OPERATING AND STORAGE | T_A | - 50 to +75 | °C |

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

| Part Number * | Old Part Number | Resistance (Ohms) \square | | | | | | | Peak Spectral Response | | Sensitivity (γ , typ.) $\frac{\log(812/8100)}{\log(100/10)}$ | V_{Max} (V, pk) | Response Time @ 1 fc (ms, typ.) | |
|---------------|-----------------|-----------------------------|-------|-------|---------------|-------|-------------|------|------------------------|--------------|---|-------------------|---------------------------------|------|
| | | 2 to 2850 K | | | 10 lux 2850 K | | DARK 5 sec. | Min. | Type | Rise (1-1/e) | | | Fall (1/e) | |
| | | Min. | Typ. | Max. | Min. | Typ. | | | | | | | | Max. |
| VT50A663 | VT503 | 44k | 66k | 88k | — | 130k | — | 50M | 565 | 0 | 0.8 | 300 | 78 | 8 |
| VT50A163 | VT502 | 11k | 16k | 21k | — | 28k | — | 5M | 565 | 0 | 0.8 | 300 | 78 | 8 |
| VT50A802 | VT502L | 5.3k | 8k | 11k | — | 16k | — | 1M | 565 | 0 | 0.8 | 300 | 78 | 8 |
| VT50A402 | VT501H | 2.7k | 4k | 5.3k | — | 8k | — | 500k | 565 | 0 | 0.8 | 300 | 78 | 8 |
| VT50A262 | VT501 | 1.7k | 2.6k | 3.5k | — | 4.8k | — | 200k | 565 | 0 | 0.75 | 200 | 78 | 8 |
| VT50A132 | VT50L | 0.87k | 1.3k | 1.7k | — | 2.2k | — | 100k | 565 | 0 | 0.75 | 200 | 78 | 8 |
| VT51A462 | VT511H | 3.1k | 4.6k | 6.1k | — | 9k | — | 1M | 735 | 1 | 0.9 | 300 | 15 | 8 |
| VT51A232 | VT511 | 1.5k | 2.3k | 3.1k | — | 4.9k | — | 500k | 735 | 1 | 0.9 | 300 | 15 | 8 |
| VT51A701 | VT51L | 0.47k | 0.7k | 0.93k | — | 1.5k | — | 100k | 735 | 1 | 0.9 | 200 | 15 | 8 |
| VT52A183 | VT522 | 12k | 18k | 24k | — | 30k | — | 5M | 515 | 2 | 0.8 | 300 | 90 | 18 |
| VT52A502 | VT521H | 3.3k | 5k | 6.7k | — | 9k | — | 500k | 515 | 2 | 0.75 | 300 | 90 | 18 |
| VT53A253 | VT533 | 17k | 25k | 33k | — | 45k | — | 10M | 550 | 3 | 0.9 | 200 | 35 | 5 |
| VT53A133 | VT533L | 8.7k | 13k | 17k | — | 26k | — | 5M | 550 | 3 | 0.85 | 200 | 35 | 5 |
| VT54A202 | VT542 | 1.3k | 2k | 2.7k | — | 3.9k | — | 1M | 675 | 4 | 0.8 | 300 | 35 | 18 |
| VT54A152 | VT542L | 1k | 1.5k | 2k | — | 2.7k | — | 1M | 675 | 4 | 0.8 | 300 | 35 | 18 |
| VT54A102 | VT541H | 0.67k | 1k | 1.3k | — | 2k | — | 1M | 675 | 4 | 0.8 | 200 | 35 | 18 |
| VT54A501 | VT541 | 0.33k | 0.5k | 0.67k | — | 0.9k | — | 500k | 675 | 4 | 0.75 | 200 | 35 | 18 |
| VT54A251 | VT54L | 0.17k | 0.25k | 0.33k | — | 0.95k | — | 100k | 675 | 4 | 0.8 | 200 | 35 | 18 |

E G & G VACTEC

* See page 11 for notes.