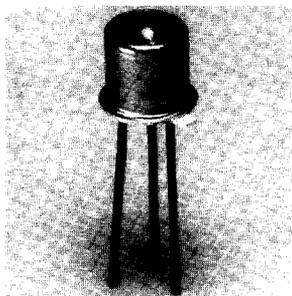
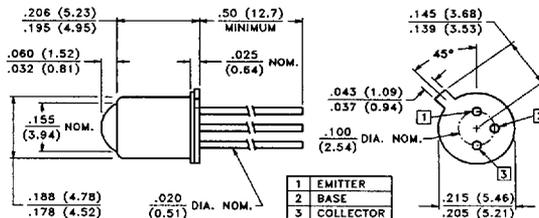


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.050" NPN Phototransistors**TO-46 Lensed Package****VTT1112, 13, 14****E G & G VACTEC****T-41-61****PACKAGE DIMENSIONS** Inch (mm)

CASE 3 TO-46 HERMETIC (LENSED)
CHIP TYPE: 50T

PRODUCT DESCRIPTION

A large area high sensitivity NPN silicon phototransistor in a lensed, hermetically sealed, TO-46 package. The hermetic package offers superior protection from hostile environments. The base connection is brought out allowing conventional transistor biasing. These devices are spectrally and mechanically matched to the VTE11xx series of IREDS.

ABSOLUTE MAXIMUM RATINGS ■

(@ 25°C unless otherwise noted)

Maximum Temperatures

Storage Temperature: -40°C to 110°C

Operating Temperature: -40°C to 110°C

Continuous Power Dissipation: 250 mW

Derate above 30°C: 3.12 mW/°C

Maximum Current: 200 mA**Lead Soldering Temperature: 260°C**

(1.6 mm from case, 5 sec. max.)

ELECTRO-OPTICAL CHARACTERISTICS @ 25°C (See also 50T curves, pg. 29)

| Part Number | Light Current | | Dark Current | Collector Breakdown | Emitter Breakdown | Saturation Voltage | Rise / Fall Time | Angular Response $\theta_{1/2}$ | | |
|-------------|----------------|------|------------------|------------------------------|------------------------------|-------------------------|---------------------------------|------------------------------------|-----|----------------|
| | I _c | | I _{CE0} | V _{BR(CE0)} | V _{BR(EC0)} | V _{CE(SAT)} | t _r / t _f | | | |
| | mA | H | H=0 | I _c = 100 μ A | I _E = 100 μ A | I _c = 1.0 mA | I _c = 1.0 mA | | | |
| | | | (nA) | H=0 | H=0 | H=400 fc | R _L = 100 Ω | | | |
| VTT1112 | 4.0 | 10.0 | 100 (5) | 25 | 20 | 30 | 6.0 | 0.40 | 5.0 | $\pm 15^\circ$ |
| VTT1113 | 8.0 | — | 100 (5) | 100 | 10 | 20 | 4.0 | 0.40 | 8.0 | $\pm 15^\circ$ |
| VTT1114 | 15.0 | — | 100 (5) | 100 | 10 | 20 | 4.0 | 0.40 | 8.0 | $\pm 15^\circ$ |

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31

■ Refer to General Product Notes, page 6.