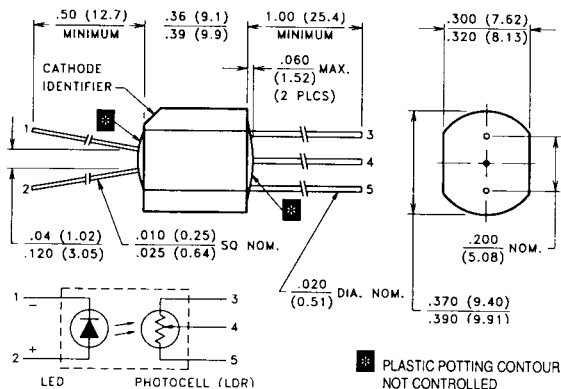


## PACKAGE DIMENSIONS inch (mm)



※ PLASTIC POTTING CONTOUR NOT CONTROLLED

## DESCRIPTION

VTL5C4/2 features a very low “on” resistance, fast response time, with a smaller temperature coefficient of resistance than VTL5C1.

## ABSOLUTE MAXIMUM RATINGS @ 25°C

Maximum Temperatures

Storage and Operating: -40°C to 75°C

Cell Power: 175 mW

Derate above 30°C: 3.9 mW/°C

LED Current: 40 mA 1

Derate above 30°C: 0.9 mA/°C

LED Reverse Breakdown Voltage: 3.0 V

LED Forward Voltage Drop @ 20 mA: 2.0 V (1.65 V Typ.)

Min. Isolation Voltage @ 70% Rel. Humidity: 2500 VRMS

Output Cell Capacitance: 5.0 pF

Cell Voltage: 30 V

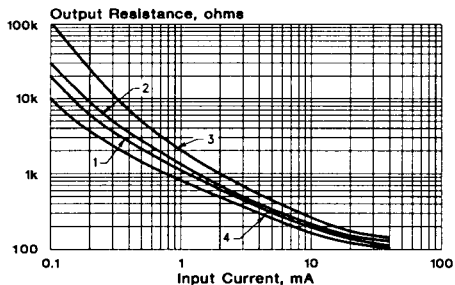
Input - Output Coupling Capacitance: 0.5 pF

## ELECTRO-OPTICAL CHARACTERISTICS @ 25°C

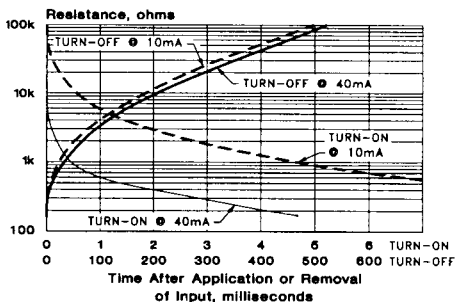
Part Number	Material Type	ON Resistance 2		OFF 3 Resistance @ 10 sec. (Min.)	Slope (Typ.) R @ .5 mA R @ 5 mA	Dynamic Range (Typ.) RDARK R @ 20 mA	Response Time 4	
		Input Current	Dark Adapted (Typ.)				Turn-on to 63% Final RON (Typ.)	Turn-off (Decay) to 100 kΩ (Max.)
VTL5C4/2	4	1 mA 10 mA	1.5 kΩ 150 Ω	400 kΩ	8.3	68 db	6.0 ms	1.5 sec

## Typical Performance Curves (Per Element)

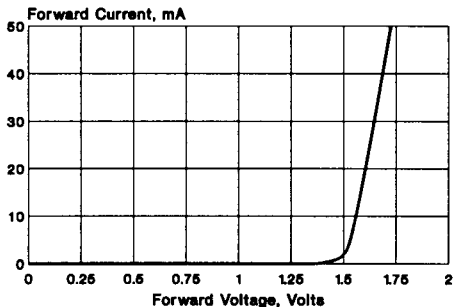
### Output Resistance vs Input Current VTL5C4/2



### Response Time VTL5C4/2



### Input Characteristics



#### Notes:

1. At 1.0 mA and below, units may have substantially higher resistance than shown in the typical curves. Consult factory if closely controlled characteristics are required at low input currents.
2. Output resistance vs input current transfer curves are given for the following light adapt conditions:
  - (1) 25°C — 24 hours @ no input
  - (2) 25°C — 24 hours @ 40 mA input
  - (3) +50°C — 24 hours @ 40 mA input
  - (4) -20°C — 24 hours @ 40 mA input
3. Response time characteristics are based upon test following adapt condition (2) above.