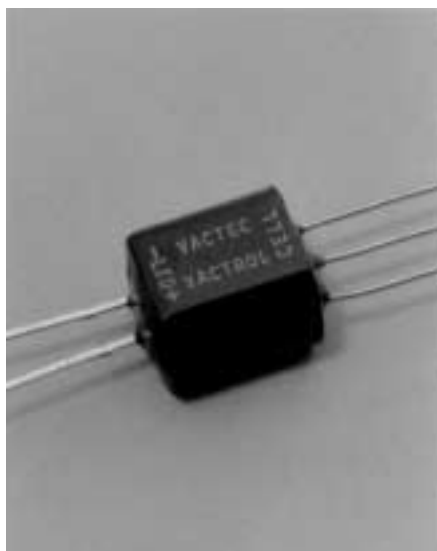
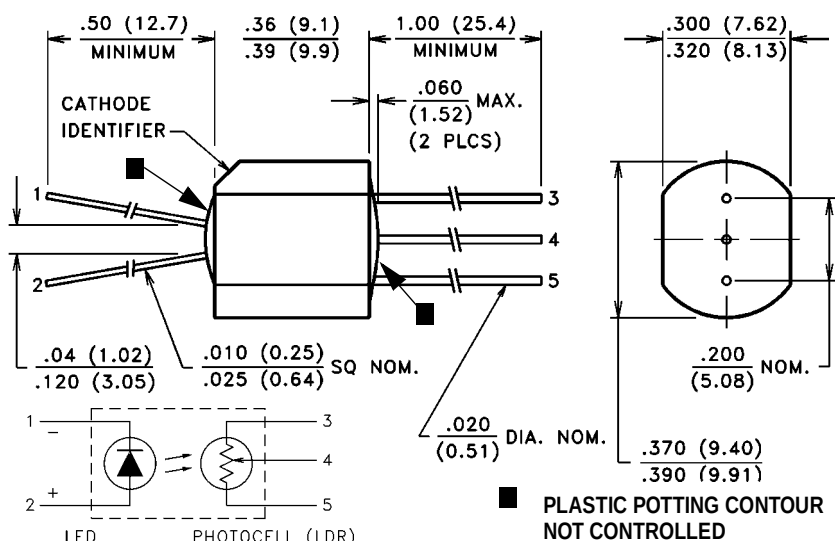




PACKAGE DIMENSIONS INCH (MM)



DESCRIPTION

VTL5C2/2 features a very steep slope, low temperature coefficient of resistance, and a small light history memory.

VTL5C3/2 has a steep slope, good dynamic range, a very low temperature coefficient of resistance, and a small light history memory.

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: 2.0V (1.65V Typ.)

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

Output Cell Capacitance: 5.0 pF

Cell Voltage: 50V (VTL5C2/2),
100V (VTL5C2/3)

Input - Output Coupling Capacitance: 0.5 pF

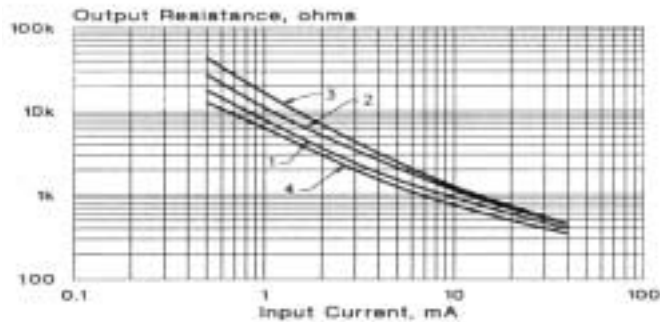
ELECTRO-OPTICAL CHARACTERISTICS @ 25°C

Part Number	Material Type	ON Resistance 2		OFF 3 Resistance @ 10 sec. (Min.)	Slope (Typ.) @ 0.5 mA R @ 5 mA	Dynamic Range (Typ.) $\frac{R_{DARK}}{R @ 20 mA}$	Response Time 4	
		Input current	Dark Adapted (Typ.)				Turn-on to 63% Final R_{ON} (Typ.)	Turn-off (Decay) to 100 k Ω (Max.)
VTL5C2/2	Ø	5 mA 40 mA	2.5 k Ω 700 Ω	1.0 M Ω	20	65 db	7.0 ms	150 ms
VTL5C3/2	3	1 mA 40 mA	55 k Ω 2 Ω	10 M Ω	19	71 db	3.0 ms	50 ms

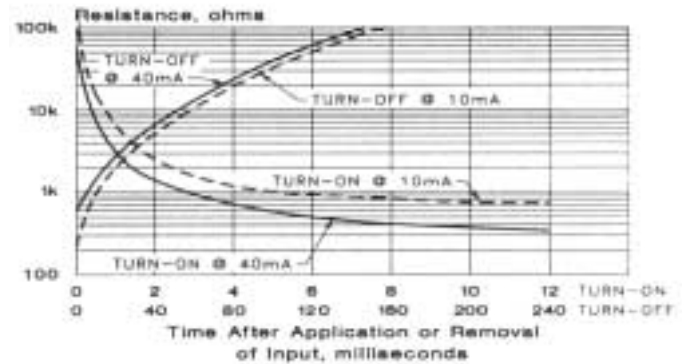
Refer to Specification Notes, page 41.

Typical Performance Curves

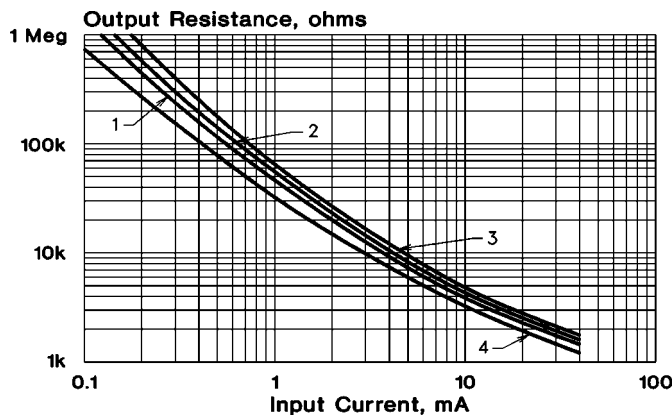
Output Resistance vs. Input Current
VTL5C2/2



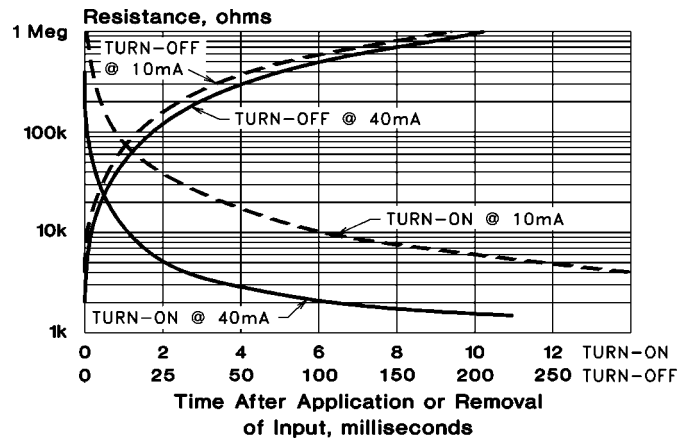
Response Time
VTL5C2/2



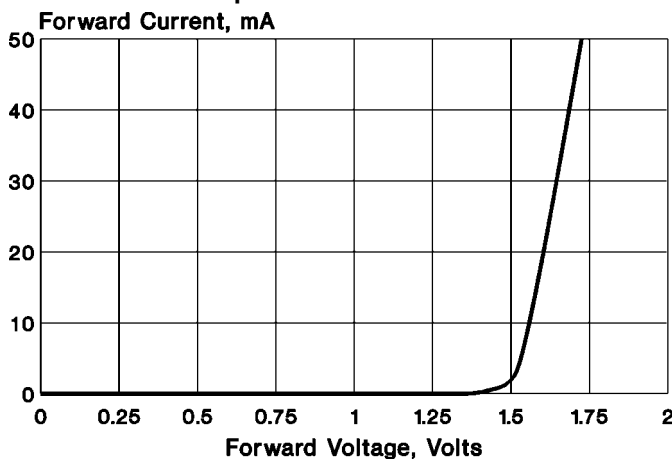
Output Resistance vs. Input Current
VTL5C3/2



Response Time
VTL5C3/2



Input Characteristics



Notes:

- 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.
- Output resistance vs input current transfer curves are given for the following light adapt conditions:
 - 25°C — 24 hours @ no input
 - 25°C — 24 hours @ 40 mA input
 - +50°C — 24 hours @ 40 mA input
 - 20°C — 24 hours @ 40 mA input
- Response time characteristics are based upon test following adapt condition (2) above.