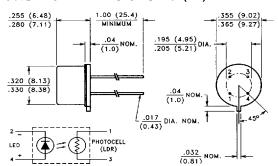
TO-5 Hermetic LED Vactrols

VTL2C3, 2C4



PACKAGE DIMENSIONS inch (mm)



TO-5 PACKAGE OUTLINE

DESCRIPTION

VTL2C3 features a small temperature coefficient of resistance, little light history memory, and a steeper slope than the VTL2C2.

VTL2C4 has the lowest "on" resistance of any device in the VTL2Cx series, fast speed and a smaller temperature coefficient of resistance than the VTL2C1.

ABSOLUTE MAXIMUM RATINGS @ 25°C

Maximum Temperatures

Storage and Operating: -40°C to 75°C

Cell Power: 100 mW

Derate above 30°C: 2.22 mW/ °C

LED Current: 40 mA

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 typical)

Min. Isolation Voltage @ 70% Relative Humidity: 500 V pk

Output Cell Capacitance: 5.0 pF

Cell Voltage: 300 V (VTL2C3), 70 V (VTL2C4)

Input - Output Coupling Capacitance: 2.0 pF

ELECTRO-OPTICAL CHARACTERISTICS @ 25°C

Part Number	Material Type	Output Resistance						Response Time 4	
		ON Resistance 2			OFF 3	Slope (Typ.)	Dynamic	Turn-on	Turn-off
		Input Current	Dark Adapted (Typ.)	Light Adapted (Max.)	Resistance @ 10 sec. (Min.)	R@.5 mA R@5 mA	Range (Typ.) Roark R@ 20 mA	to 63% Final Ron (Typ.)	(Decay) to 100 kΩ (Max.)
VTL2C3	3	1 mA 40 mA	50 kΩ 1 kΩ	 2 kΩ	10 ΜΩ	21	72 db	2.5 ms	35 ms
VTL2C4	4	1 mA 40 mA	1.5 kΩ 50 Ω	 100 Ω	400 kΩ	14.7	72 db	6.0 ms	1.5 sec

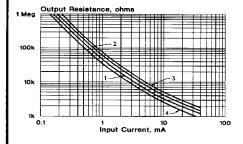
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Refer to Specification Notes, page 25.

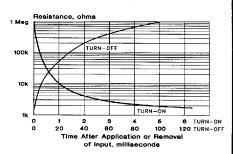
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Typical Performance Curves

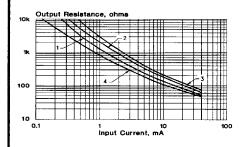
Output Resistance vs Input Current VTL2C3



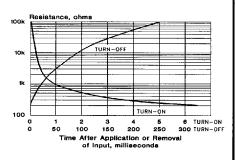
Response Time VTL2C3



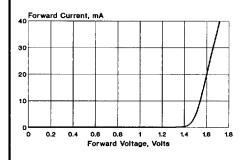
Output Resistance vs Input Current VTL2C4



Response Time VTL2C4



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 or 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
- Response time characteristics are based upon test following adapt condition (2) above.

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29

Find price and stock options from leading distributors for VTL2C3 on Findchips.com:

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