



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: <u>-40°C to 75°C</u>

Cell Power: <u>100 mW</u> Derate above 30°C: <u>2.22 mW/ °C</u>

LED Current: <u>40 mA</u> Derate above 30°C: <u>0.9 mA / °C</u>

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 Resistance	Slope (Typ.)	Dynamic Range (Typ.)	Turn-on	Turn-off
		Input Current	Dark Adapted (Typ.)	Light Adapted (Max.)	@ 10 sec. (Min.)	<u>R@.5mA</u> R@5mA	<u></u>	to 63% Final Ron (Typ.)	(Decay) to 100 kΩ (Max.)
VTL2C3	3	1 mA 40 mA	50 kΩ 1 kΩ	 2 kΩ	10 MΩ	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

