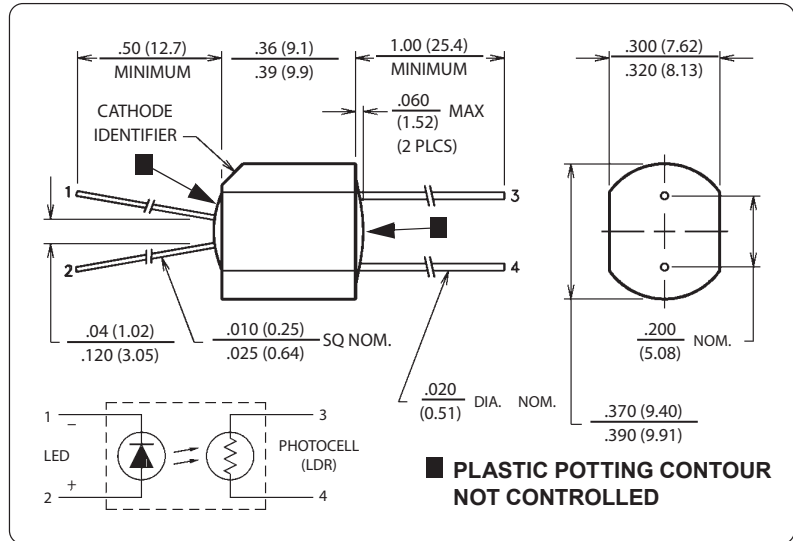
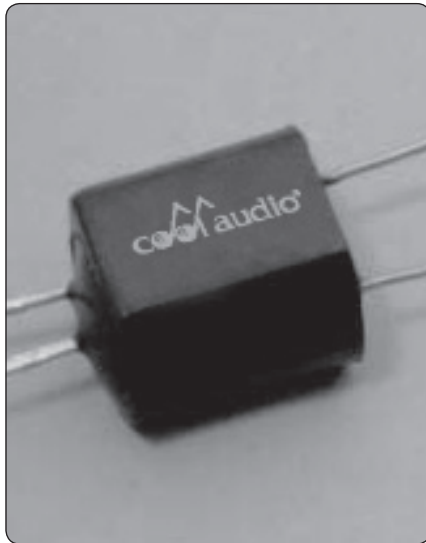


1. Package Dimensions Inch (mm)



2. Description

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

3. Absolute Maximum Ratings @ 25°C

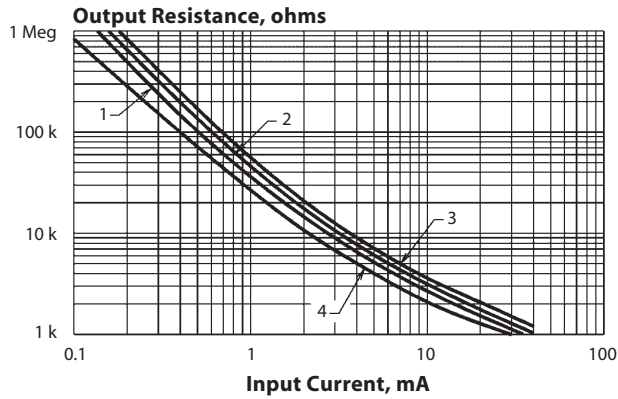
Maximum Temperatures Storage and Operating:	-40 °C to 75 °C	Min. Isolation Voltage @ 70% Rel. Humidity:	2.0 V (1.65 V Typ.)
Cell Power:	175 mW	LED Reverse Breakdown Voltage:	2500 VRMS
Derate above 30 °C:	3.9 mW / °C		
LED Current:	40 mA ■	Output Cell Capacitance:	5.0 pF
Derate above 30 °C:	0.9 mA / °C		
LED Forward Voltage Drop @ 20 mA:	3.0 V	Cell Voltage:	250 V (VTL5C3)
		Input - Output Coupling Capacitance:	0.5 pF

4. Electro-Optical Characteristics @ 25°C

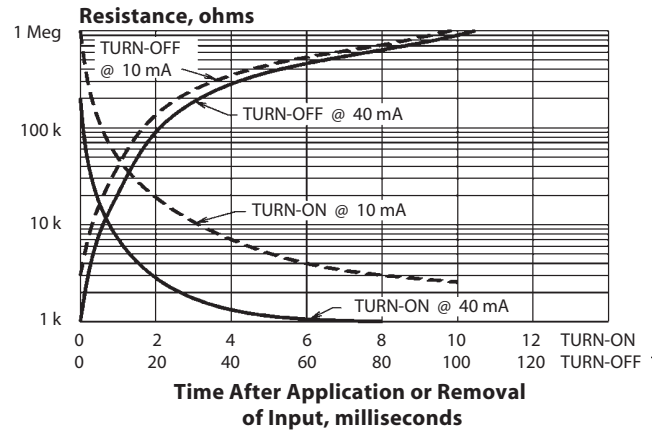
Part Number	Material Type	ON Resistance ²		OFF ³ Resistance @ 10 sec. (Min.)	Slope (Typ.) R @ 0.5 mA R @ 5 mA	Dynamic Range (Typ.) RDARK R @ 20 mA	Response Time ⁴	
		Input current	Dark Adapted (Typ.)				Turn-on to 63% Final RON (Typ.)	Turn-off (Decay) to 100 kΩ (Max.)
VTL5C3	3	1 mA 10 mA 40 mA	10 kΩ 1 kΩ 500 Ω	10 MΩ	20	75 db	2.5 ms	35 ms

5. Typical Performance Curves Notes:

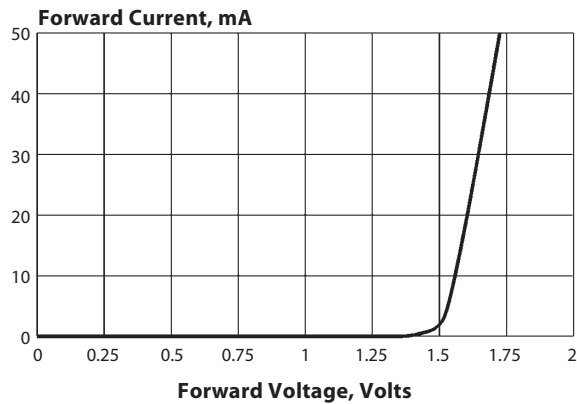
**Output Resistance vs. Input Current
VTL5C3**



**Response Time
VTL5C3**



Input Characteristics



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.