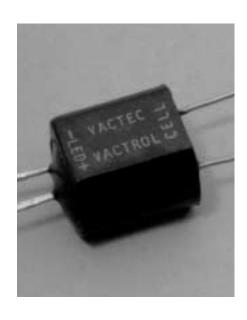
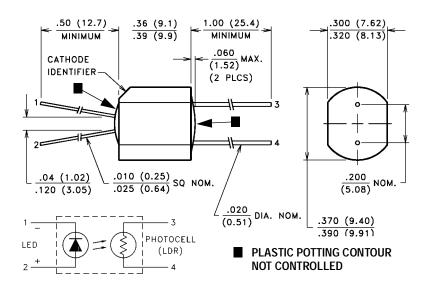
VTL5C8



PACKAGE DIMENSIONS INCH (MM)



DESCRIPTION

VTL5C8 is similar to VTL5C2 with a low temperature coefficient of resistance and little light history memory, but has a more shallow slope and a lower "on" resistance at low (1 mA) drive currents.

ABSOLUTE MAXIMUM RATINGS @ 25°C

Maximum Temperatures LED Forward Voltage Drop @ 20 mA: 2.8V (2.2V Typ.)

Storage and Operating: -40°C to 75°C

Cell Power: 175 mW Min. Isolation Voltage @ 70% Rel. Humidity: 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

Cell Voltage: 500V

LED Reverse Breakdown Voltage: 3.0 V Input - Output Coupling Capacitance: 0.5 pF

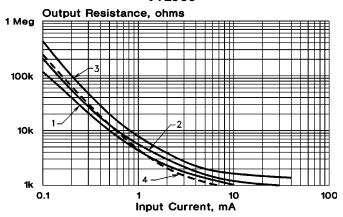
ELECTRO-OPTICAL CHARCTERISTICS @ 25°C

Part Number	Material Type	ON Resistance 2		OFF 3	Slope	Dynamic Range	Response Time 4	
		Input current	Dark Adapted (Typ.)	Resistance @ 10 sec. (Min.)	(Typ.) <u>@ 0.5 mA</u> R@ 5 mA	(Typ.) R _{DARK} R@ 20 mA	Turn-on to 63% Final R _{ON} (Typ.)	Turn-off (Decay) to 100 kΩ (Max.)
VTL5C8	0	1 mA 4 mA 16 mA	4.8 kΩ 1.8 kΩ 1.0 kΩ	10 ΜΩ	8	80 db	4 ms	60 ms

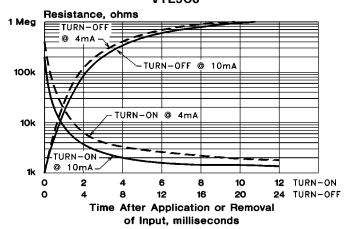
Refer to Specification Notes, page 41.

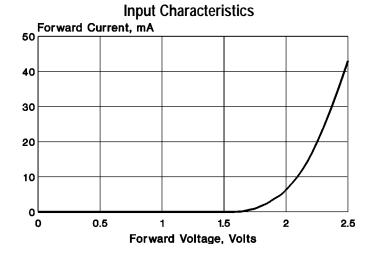
Typical Performance Curves

Output Resistance vs. Input Current VTL5C8



Response Time VTL5C8





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.
- 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) $+50^{\circ}\text{C} 24 \text{ hours } @ 40 \text{ mA input}$
 - (4) -20°C 24 hours @ 40 mA input
- 3. Response time characteristics are based upon test following adapt condition (2) above.