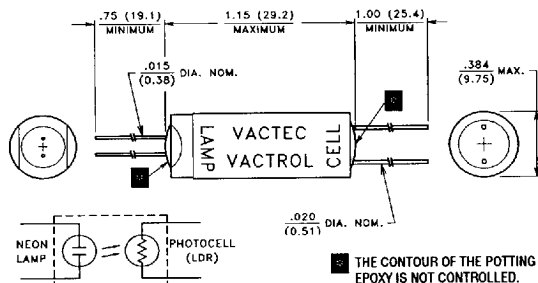




UL Listed File #E73887

Dual "center tap" element version
is available for VTL3B48.

PACKAGE DIMENSIONS inch (mm)



DESCRIPTION

VTL3B48 features a low "on" resistance and fast turn-on time, with a smaller temperature coefficient of resistance and less light history memory than the VTL3B18.

ABSOLUTE MAXIMUM RATINGS @ 25°C

Maximum Temperatures

Storage and Operating: -40°C to 75°C

Cell Power: 175 mW

Derate above 25°C: 3.5 mW/°C

Derate 0.2 mW/mW of total case power dissipation

Case Power Dissipation: 550 mW

Cell Voltage: 100 V

Min. Isolation Voltage @ 70% Ref. Humidity: 2500 V pk. 60 Hz

Neon Lamp Breakdown Voltage: 60 - 80 V

Neon Lamp Sustaining Voltage: 55 V (typ.)

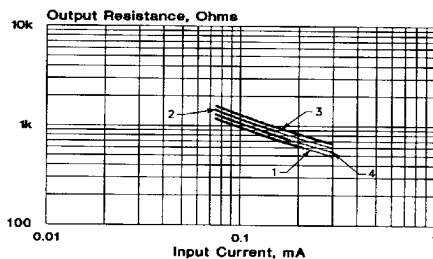
Recommended Min. Supply Voltage: 105 VAC

ELECTRO-OPTICAL CHARACTERISTICS @ 25°C (External Limiting Resistor Required)

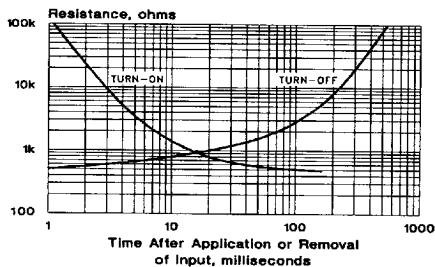
Part Number	Material Type	Output Resistance ⁽¹⁾						Response Time ⁽²⁾	
		ON Resistance					OFF Resistance (Min.)	Turn-on to 63% of Final R _{ON} (Typ.)	Turn-off (Decay) to 100 kΩ (Max.)
		Lamp Input			Dark Adapted (Typ.)	Light Adapted (Max.)			
		DC	AC						
		Current	Voltage	Limit Resistor					
VTL3B48	4	— 0.3 mA	120 V	220 kΩ —	400 Ω 400 Ω	1 kΩ 900 Ω	1 MΩ	5 ms	600 ms

Typical Performance Curves

Output Resistance vs Input Current VTL3B48



Response Time VTL3B48



Notes:

- 1 Please consult Vactec if closely controlled transfer characteristics are required over a range of input conditions.
2. Output resistance or input current transfer curves are given for the following adapt conditions:
 - (1) 25°C — 24 hours @ no input
 - (2) 25°C — 24 hours @ rated input
 - (3) +50°C — 24 hours @ rated input
 - (4) -20°C — 24 hours @ rated input
3. Response time characteristics are based upon test following adapt condition (2) above.
4. Turn-on times are based on zero ionization time.