EG&G
OPTOELECTRONICS
Vactec Division

PHOTOCONDUCTIVE CdS CELL

VT935G

FEATURES

- *Low cost*
- *Exceptional temperature stability*
- *Fast response time*
- *Excellent chopping capability*

PRODUCT DESCRIPTION

This photocell consists of a thin film of photoconductive material on a ceramic substrate. A unique method of lead wire attachment provides metallurgical bonding of the wire to the electrode and rigid anchoring of the lead in the ceramic, thus eliminating the need for conductive pastes. A thin plastic coating provides protection for the active surface.

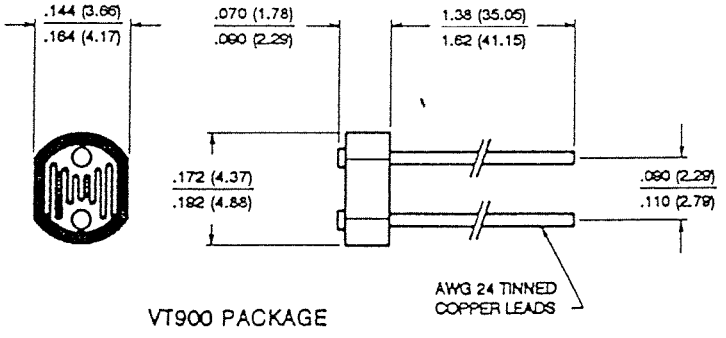
ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATING	UNITS
CONTINUOUS POWER DISSIPATION	P_D	80	mW
DERATE ABOVE 25° C		1.0	mW/°C
MAXIMUM VOLTAGE	V_{MAX}	100	V, PEAK
TEMPERATURE RANGE, OPERATING AND STORAGE	T_A	− 50 to +75	°C

ELECTRO-OPTICAL CHARACTERISTICS @ 25° C (16 HRS. LIGHT ADAPT, MIN.)

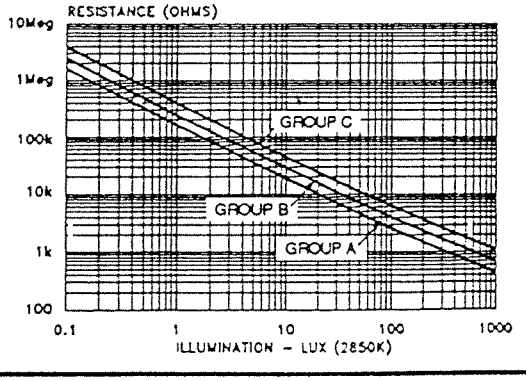
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS
RESISTANCE @ 10 lux, 2850 K	R_L				kΩ
GROUP A		10		27	
GROUP B		20		38	
GROUP C		31		50	
DARK RESISTANCE (10 sec. after removal of 10 lux)	R_D	1.0			MΩ
SENSITIVITY $\frac{\text{LOG (R10/R100)}}{\text{LOG (100/10)}}$	γ		0.9		
PEAK SPECTRAL RESPONSE (TYPE 3)	λ_P		550		nm

PACKAGE DIMENSIONS inch (mm)



VT900 PACKAGE

Typical Resistance vs. Illumination Characteristics



10900 PAGE BLVD.
ST. LOUIS, MO. 63132 USA

FAX 314-423-3956
PHONE 314-423-4900