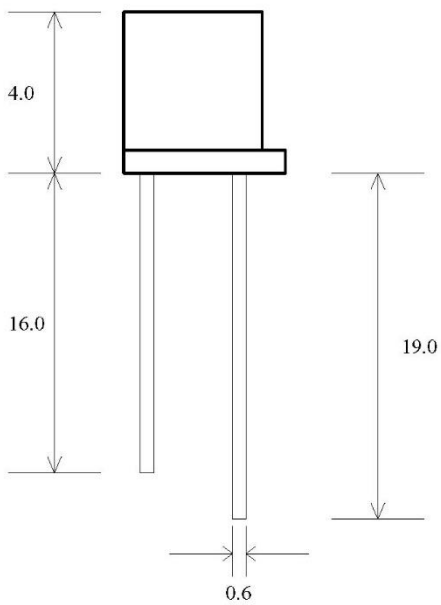


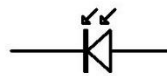
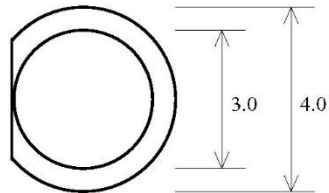
UVI-01

Ultraviolet Rays Detector

Datasheet



Unit : mm



PRODUCT DESCRIPTION

The UVI-01 is able to detect the UVA and UVB band, and direct output the UVI (Ultraviolet INDEX). The UVI-01 is very suitable for the field of UV measurements.

ABSOLUTE MAXIMUM RATINGS

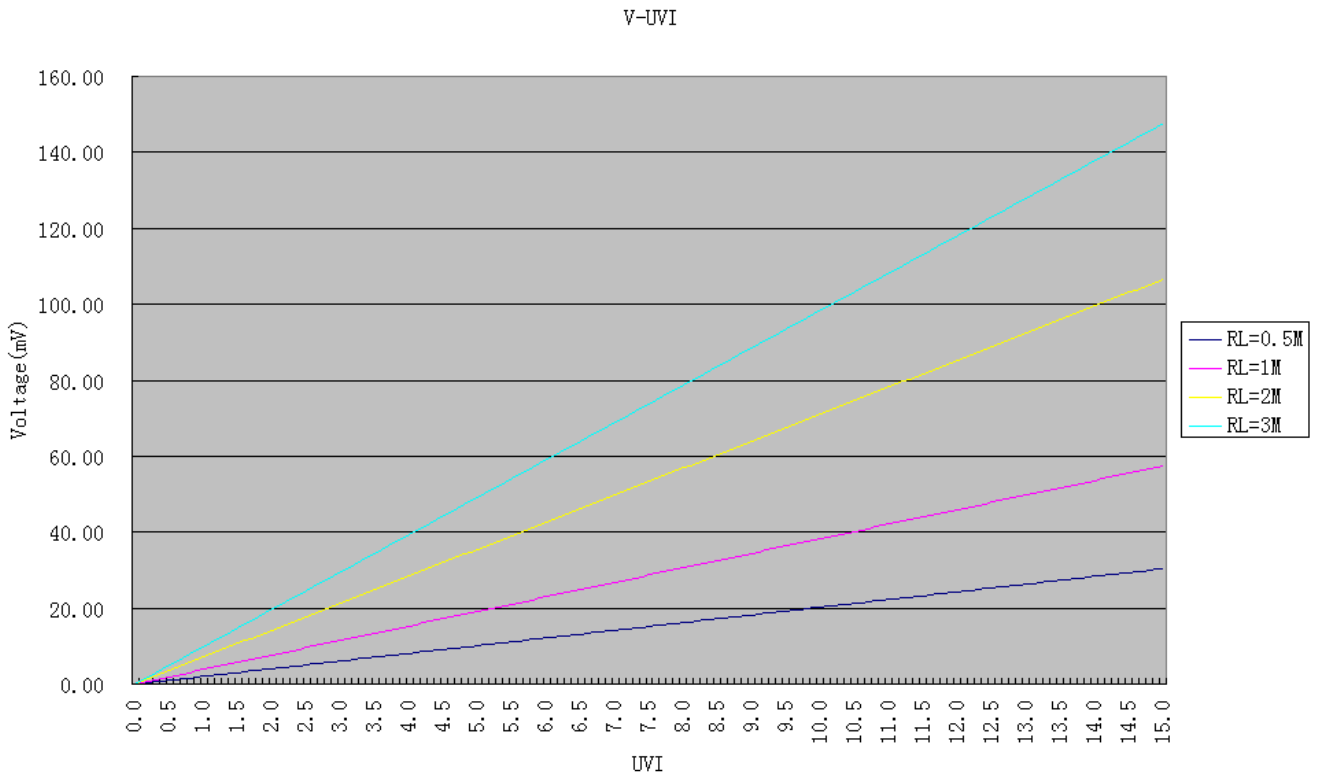
Parameter	Min	Max	Unit
Operating ambient temperature range	-25	+70	°C
Storage temperature range	-40	+70	°C
Package body temperature		+260	°C
Humidity non-condensing	5	85	%RH

ELECTRO-OPTICAL CHARACTERISTICS

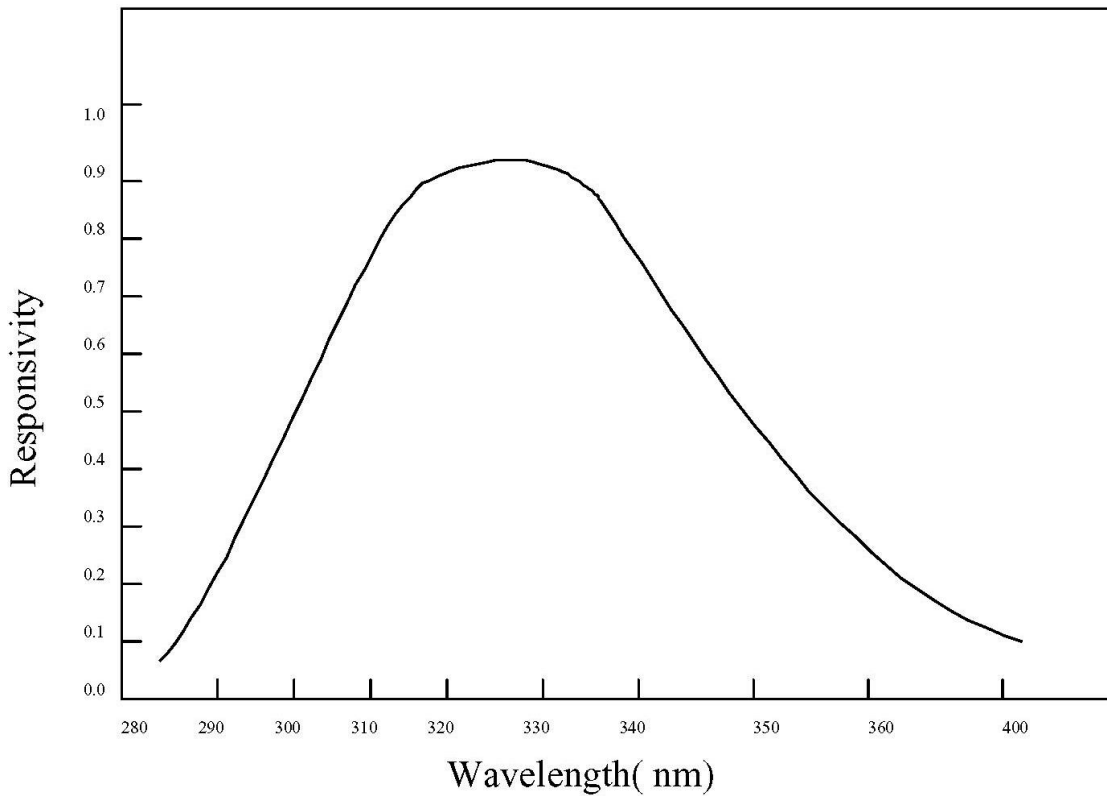
(Ta=25 °C)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Spectral wavelength detection range	λ_b	—	290	—	400	nm
The most sensitive wavelength	λ_p	—	—	330	—	nm
Output voltage	V_{dark}	Ee=100mW/m ² $\lambda_p=330nm$	—	0	0.2	mV
Sensitivity	V_s	$R_L=1M\Omega$	3.9	4.0	4.1	mV/UVI
Inaccuracy	%				15	%
Reverse breakdown voltage	V_{BR}	—	30	40	100	V
Forward voltage	V_F	$I_f=10mA$	2.6	3.0	3.5	V
Capacity	C_t	$f=1MHz$	—	6	—	pF
Rise time	t_r	$R_L=1M\Omega$	—	10	—	mS
Fall time	t_f	$C_L=1000pF$	—	500	—	mS

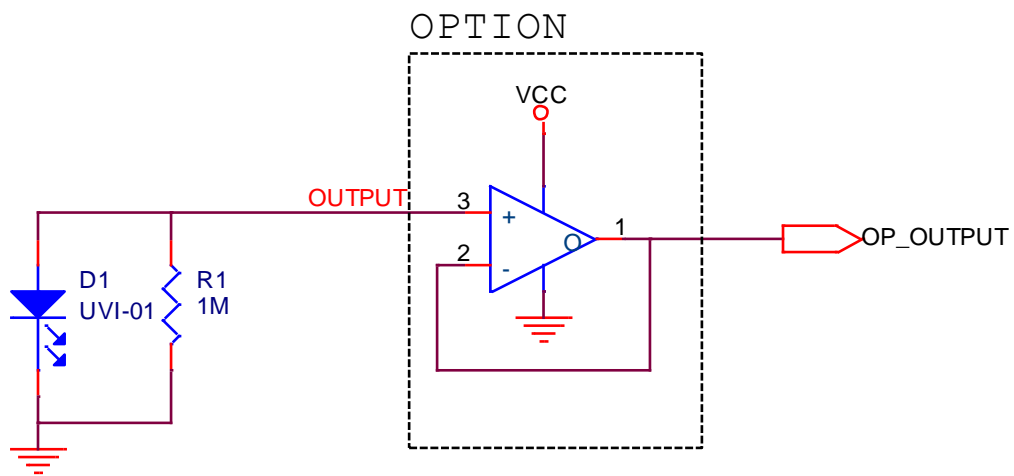
UVI VS. VOLTAGE OUTPUT



WAVE LENGTH VS. RESPONSIVITY



APPLICATION CIRCUIT



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