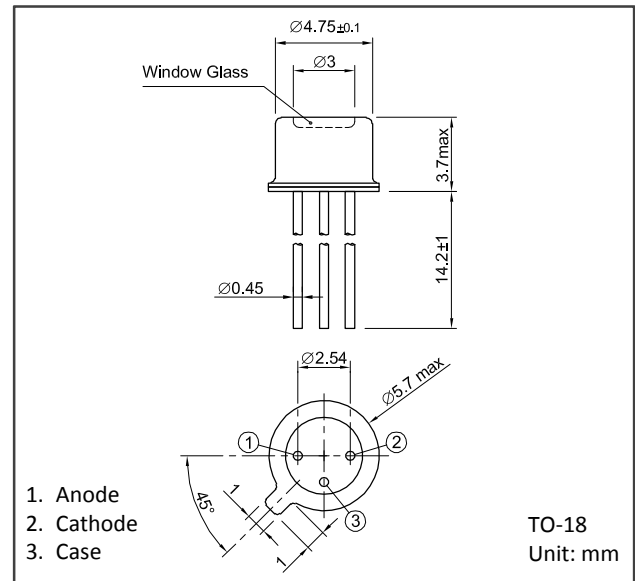


Features

- 1mm diameter large active area
- High gain

Applications

- Short wavelength optical communications
- Optical measurement
- Optical sensors
- Weak light signal detection

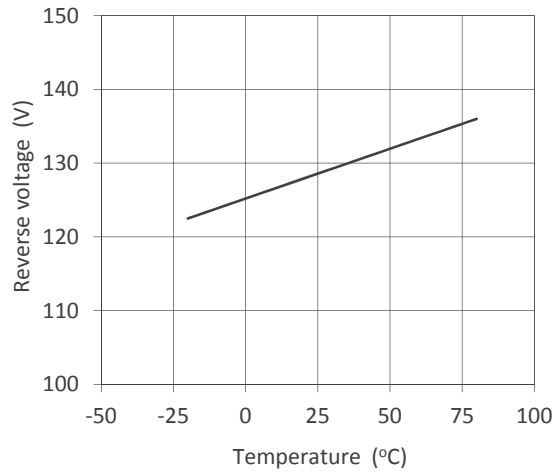
**Absolute Maximum Ratings**

Parameter	Symbol	Value	Unit	Note
Reverse current	I_R	1	mA	
Forward current	I_F	10	mA	
Operating temperature	T_{opr}	-40 to +85	°C	Avoid dew condensation
Storage temperature	T_{stg}	-40 to +125	°C	Avoid dew condensation

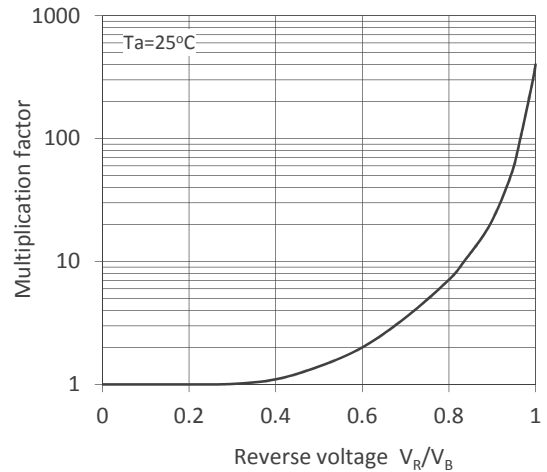
Electrical and Optical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Active diameter	D	1			mm	
Sensitive wavelength	λ	400	-	1000	nm	
Responsivity	R	-	0.35	-	A/W	$V_R=50\text{V}$, $\lambda=660\text{nm}$
Breakdown voltage	V_B	100	130	160	V	$I_R=100\mu\text{A}$
Multiplication factor	M	100	-	-	-	$V_R=V_B-1\text{V}$
Dark current	I_D	-	0.5	1.0	nA	$V_R=50\text{V}$
Terminal capacitance	C_T	-	15	-	pF	$V_R=100\text{V}$, $f=1\text{MHz}$
Cutoff frequency	f_C	-	250	-	MHz	$M=100$, $R_L=50\Omega$, $\lambda=660\text{nm}$

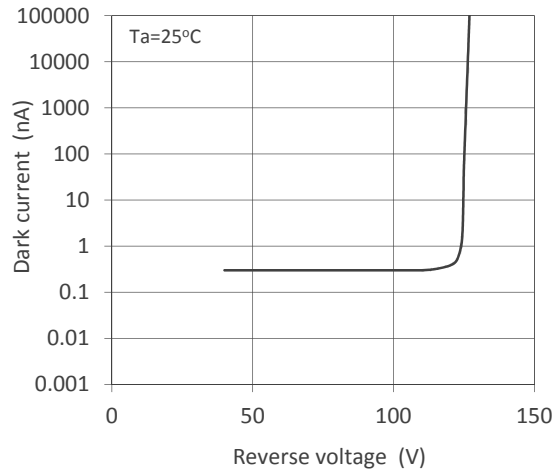
Temperature Dependency of V_B



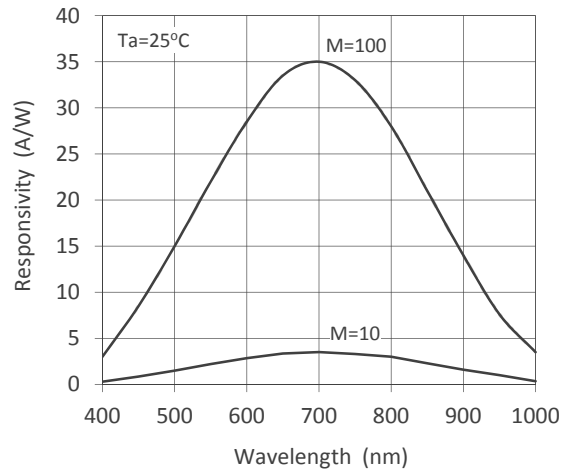
Multiplication Factor



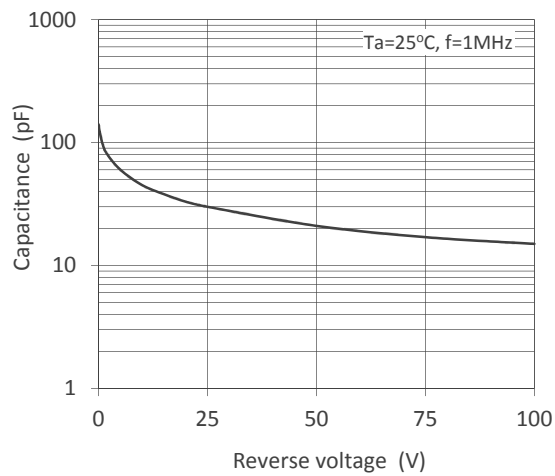
Dark Current - Reverse Voltage



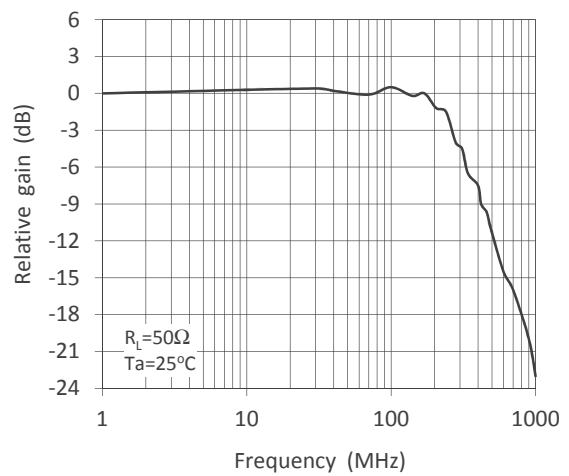
Spectral Responsivity



Capacitance - Reverse Voltage



Frequency Response



- Specifications , characteristics, data, materials, structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.
- Products listed in this datasheet comply with the RoHS Directive (EU2002/95/EC).

Opto-technologies for the Future



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