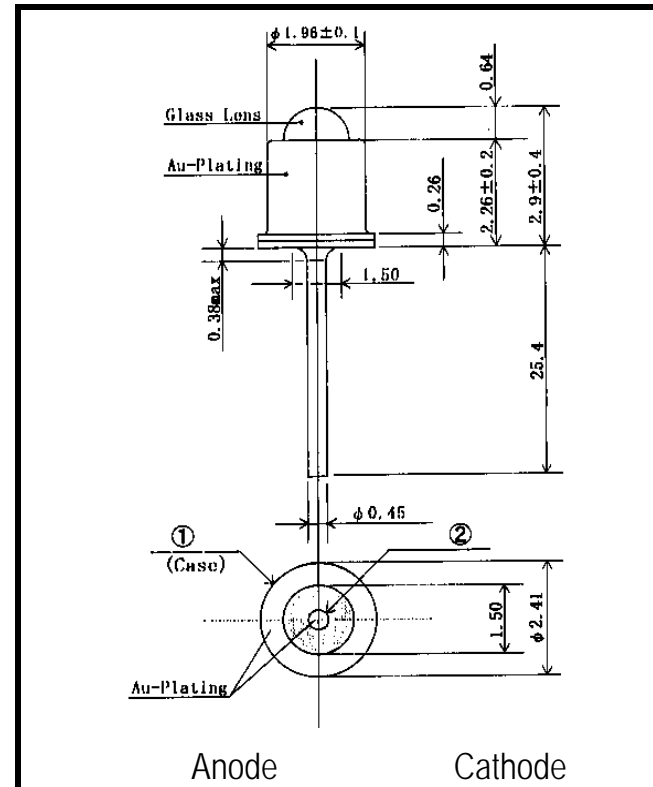


PD061PT

Photo Diode



- FEATURES**
- Linearity of E_e vs I_L
 - Low Dark Current
 - Narrow Angular Response
 - High Reliability in Demanding Environments (Metal Can Package)
- APPLICATIONS**
- Optical Switches
 - Edge Sensing
 - Fiber Optical Communications
 - Smoke Detectors

1. ABSOLUTE MAXIMUM RATINGS (Ta=25)

ITEM	SYMBOL	RATINGS	UNIT
Reverse Voltage	VR	30	V
Power Dissipation	PD	100	mW
Operating Temp.	Topr	-30 TO 100	
Storage Temp.	Tstg	-40 TO 125	
Junction Temp.	Tj	125	
Lead Soldering Temp.*1	Tls	260	

*1:Time 5 Sec max,Position:Up to 3mm from the body

2.ELECTRICAL & OPTICAL CHARACTERISTICS (Ta=25)

ITEM	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Open Circuit Voltage	Voc	$E_e=5\text{mW/cm}^2$	0.35			V
Light Current	I_L	$V_R=10\text{V}, E_e=5\text{mW/cm}^2$		10		μA
Dark Current	I_D	$V_R=10\text{V}$			10	nA
Curve Factor	CF	$E_e=5\text{mW/cm}^2$	0.55			-
Spectral Sensitivity				400 ~ 1100		nm
Peak Sensitivity Wave Length	λ_p			880		nm
Switching time (Rise Time)	Tr	$R=1000, V_r=10\text{V}$		6		nS
Switching time (Fall Time)	Tf	$R=1000, V_r=10\text{V}$		6		nS
Angular Response				± 10		deg
Junction Capacitance	Cj	at 1MHz, V=5V		5	10	pF

Color Temperature=2870°K Standard Tungsten Lump

