

Lead (Pb) Free Product – RoHS Compliant

PD018T32 hermetical sealing type photo-diode

PD018T32 is a PIN-photodiode featuring excellent responsibility and high photocurrent.

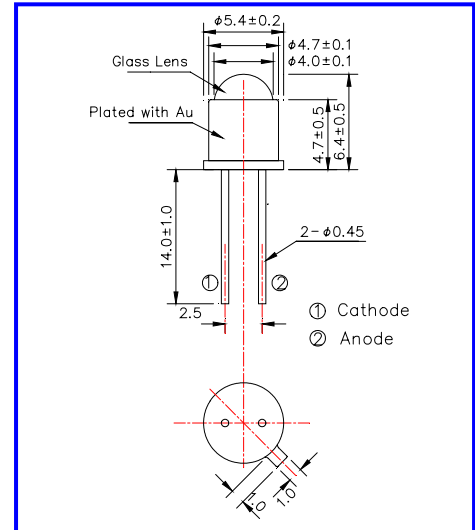
This PIN-photodiode consists of a large chip with $1.6 \times 1.6\text{mm}$ active area mounted on the TO-18 stem and is hermetical sealed by metal can with ball lens.

These devices are designed to be easy of setting up optically with a wide angle of half sensitivity of ± 10 degrees.

Specifications

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|----------------|-------------------------------------|
| 1)Product Name | Hermetical Sealing Type Photo-Diode |
| 2)Type No. | PD018T32 |
| 3)Chip | |
| (1)Chip Size | 1.8mm × 1.8mm |
| (2)Active Area | 1.6mm × 1.6mm |
| 4)Package | |
| (1)Type | TO-18 |
| (2)Lens | Glass Spherical Ball Lens |
| (3)Cap | Gold Plated |

Outer dimension (Unit : mm)



Absolute Maximum Ratings [Ta=25]

Item	Symbol	Maximum Rated Value	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	170	V
Operating Temperature	T_{OPR}	-25 ~ +100	
Storage Temperature	T_{STG}	-30 ~ +125	
Soldering Temperature	T_{SOL}	240	

‡Soldering condition : Soldering condition must be completed within 2 seconds at 240

Erectro-Optical Characteristics [Ta = 25]

Item	Symbol	Condition	Minimum	Typical	Maximum	unit
Reverse Photo Current	I_L	$V_R=10V, L=1000Lx$		45		μA
Reverse Dark Current	I_D	$V_R=10V$			10	nA
Open Circuit Voltage	V_{OC}	$V_R=10V, L=1000Lx$		410		mV
Spectral Responsivity (Peak)	P			900		nm
Half Angle of Sensitivity				± 10		deg.
Total Capacitance	C_T	$V_R=10V, f=1MHz$		18		pF
Rise/Fall Time (10% ~ 90%)	t_r	$R_L=1K, V_R=10V$		30		ns
	t_f			30		ns