

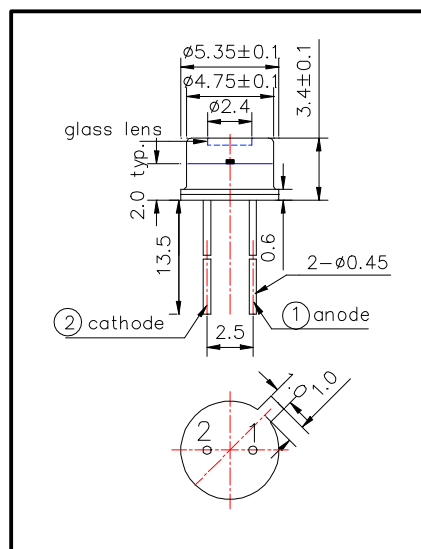
PD018T52 Stem type photo-diode

PD018T52 is a PIN-photodiode featuring excellent responsivity and high photocurrent. This PIN-photodiode consists of a large chip with 1.6x1.6mm active area mounted on the TO-18 stem and is hermetical sealed by metal can with flat lens. These devices are designed to be easy of setting up optically with a wide angle of half sensitivity of $\pm 45^\circ$

Outer dimension (Unit: mm)

Specifications

- 1) Product Name Stem Type Photo-Diode
- 2) Type No. PD018T52
- 3) Chip
 - (1) Chip Size 1.8mmx1.8mm
 - (2) Active Area 1.6mmx1.6mm
- 4) Package
 - (1) Type TO-18
 - (2) Lens Glass Flat Lens
 - (3)Cap Gold Plated



Absolute Maximum Ratings [Ta=25°C]

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

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

Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum	Typical	Maximum	unit
Reverse Photo Current	I_L	$V_R=10V, L=1000Lx$		15		uA
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)	I_P			900		nm
Half Angle of Sensitivity	$Q_{1/2}$			± 45		deg.
Total Capacitance	C_T	$V_R=10V, f=1MHz$		18		pF
Rise/Fall Time(10%~90%)	t_r	$R_L=1KW, V_R=10V$		30		ns
	t_f			30		ns

EPITEX INC. : 4, Nishiaketa-Cho, Higashi-Kujyou, Minami-Ku, Kyoto, Japan

Tel.: ++81-75-682-2338 Fax: ++81-75-682-2267

e-mail: sales-dep@epitex.com

<http://www.epitex.com>