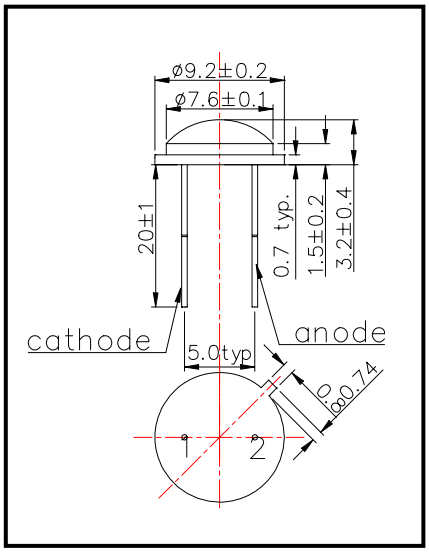
Marubeni

PD035P00 stem type photo-diode

PD035P00 is a PIN-photodiode featuring excellent responsibility and high photocurrent. This PIN-photodiode consists of a large chip with 3.0mmx3.0mm active area mounted on the TO-39 stem and is sealed with epoxy resin.
These devices are designed to be easy of setting up optically with a wide angle of half sensitivity.

♦Outer dimension (Unit: mm)



♦Specifications

1)Product Name	Stem Type Photo-Diode
2) Type No.	PD035P00
3) Chip	
(1) Chip Size	3.5mmx3.5mm
(2) Active Area	3.0mmx3.0mm
4) Package	
(1) Type	TO-39
(2) Lens	Epoxy Resin

♦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		130		uA
Reverse Dark Current	I_D	V_R=10V		5	30	nA
Open Circuit Voltage	V_{OC}	V_R=10V,L=1000Lx		350		mV
Spectral Responsivity (Peak)	λ_P			900		nm
Half Angle of Sensitivity	$\theta_{1/2}$			±65		deg.
Total Capacitance	C_T	V_R=10V,f=1MHz		25		pF
Rise/Fall Time(10%~90%)	tr	R_L=1KΩ,V_R=10V		300		ns
	tf			600		ns

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