

# PD60T

## Chip Type Photodiode

### ■ Features

1. Subminiature (Dimensions :  $3.2 \times 1.6 \times 0.8\text{mm}$ )
2. Thin type (Thickness :  $0.8\text{mm}$ )
3. Surface mount type (leadless type)
4. Taped model (4 000pcs./reel)

### ■ Applications

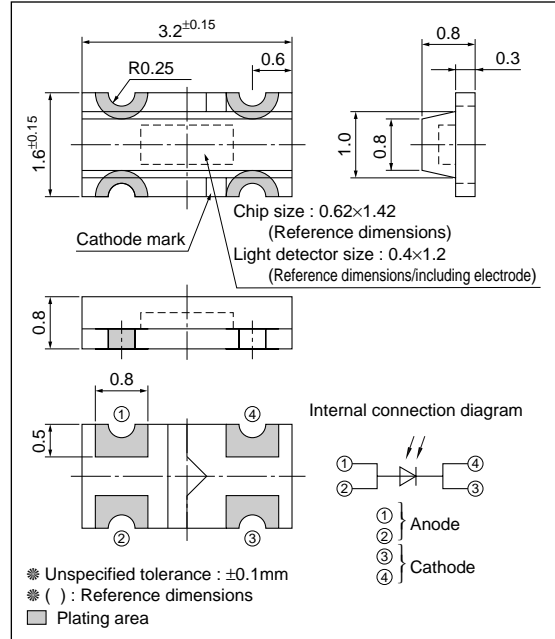
1. Pagers
2. Cellular phones
3. Other portable equipment

### ■ Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Reverse voltage	$V_R$	30	V
Power dissipation	P	50	mW
Operating temperature	$T_{opr}$	-25 to +85	°C
Storage temperature	$T_{stg}$	-40 to +100	°C
*1 Soldering temperature	$T_{sol}$	260	°C

\*1 Hand soldering temperature, for MAX. 3s

### ■ Outline Dimensions (Unit : mm)



### ■ Electro-optical Characteristics

(Ta=25°C)

Parameter	Symbol	Conditions *2	MIN.	TYP.	MAX.	Unit
Short circuit current	I <sub>sc</sub>	E <sub>v</sub> =1 000 lx	2.8	4.5	6.9	μA
Dark current	I <sub>d</sub>	E <sub>v</sub> =0, V <sub>R</sub> =10V	–	–	10	nA
Reverse voltage	V <sub>R</sub>	I <sub>R</sub> =10μA	30	–	–	V
Terminal capacitance	C <sub>t</sub>	V <sub>R</sub> =10V, f=1MHz	–	3	–	pF
Peak sensitivity wavelength	λ <sub>p</sub>	–	–	940	–	nm
Response time	Rise time	t <sub>r</sub>	–	50	250	ns
	Fall time	t <sub>f</sub>	–	50	250	ns
Half intensity angle	Δθ	–	–	±65	–	°

\*2 E<sub>v</sub>=Illuminance by CIE standard light source A (tungsten lamp)

## Application Circuits

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