Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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PD60T

Chip Type Photodiode

■ Features

1. Subminiature (Dimensions : 3.2 × 1.6 × 0.8mm)
2. Thin type (Thickness : 0.8mm)
3. Surface mount type (leadless type)
4. Taped model (4 000pcs./reel)

■ Applications

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

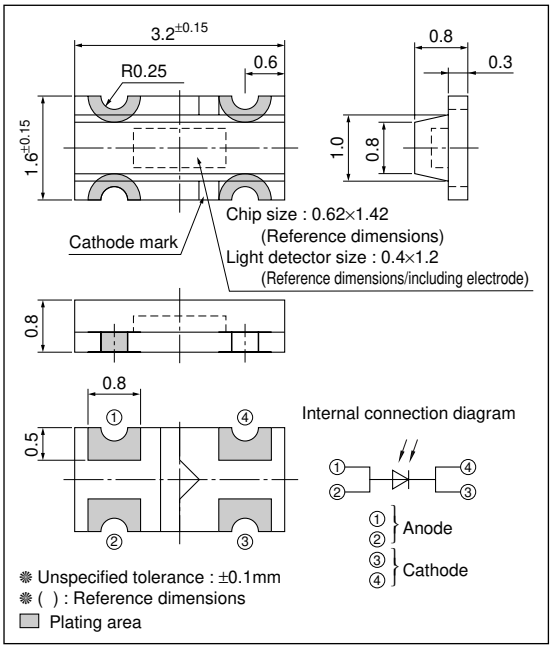
■ Absolute Maximum Ratings (Ta=25˚C)

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_{SC}	Ev=1 000 lx	2.8	4.5	6.9	μA
Dark current		Id	Ev=0, V_R=10V	–	–	10	nA
Reverse voltage		V_R	I_R=10μA	30	–	–	V
Terminal capacitance		C_t	V_R=10V, f=1MHz	–	3	–	pF
Peak sensitivity wavelength		λp	–	–	940	–	nm
Response time	Rise time	t_r	V_R=10V, R_L=1 000Ω	–	50	250	ns
	Fall time	t_f	V_R=10V, R_L=1 000Ω	–	50	250	ns
Half intensity angle		Δθ	–	–	±65	–	°

*2 Ev=Illuminance by CIE standard light source A (tungsten lamp)

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- Personal computers
- Office automation equipment
- Telecommunication equipment [terminal]
- Test and measurement equipment
- Industrial control
- Audio visual equipment
- Consumer electronics

(ii) Measures such as fail-safe function and redundant design should be taken to ensure reliability and safety when SHARP devices are used for or in connection with equipment that requires higher reliability such as:
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- Traffic signals
- Gas leakage sensor breakers
- Alarm equipment
- Various safety devices, etc.

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- Space applications
- Telecommunication equipment [trunk lines]
- Nuclear power control equipment
- Medical and other life support equipment (e.g., scuba).

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