

PD60T Datasheet



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DiGi Electronics Part Number	PD60T-DG
Manufacturer	Sharp Microelectronics
Manufacturer Product Number	PD60T
Description	SENSOR PHOTODIODE 940NM 1206
Detailed Description	Photodiode 940nm 50ns 130° 1206 (3216 Metric)

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Manufacturer Product Number:

PD60T

Series:

-

Wavelength:

940nm

Spectral Range:

-

Responsivity @ nm:

-

Voltage - DC Reverse (Vr) (Max):

30 V

Active Area:

-

Operating Temperature:

-25°C ~ 85°C

Package / Case:

1206 (3216 Metric)

Manufacturer:

Sharp Microelectronics

Product Status:

Obsolete

Color - Enhanced:

-

Diode Type:

-

Response Time:

50ns

Current - Dark (Typ):

10nA

Viewing Angle:

130°

Mounting Type:

Surface Mount

Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8541.49.1050

ECCN:

EAR99

PD60T

Chip Type Photodiode

■ Features

1. Subminiature (Dimensions : $3.2 \times 1.6 \times 0.8$ mm)
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

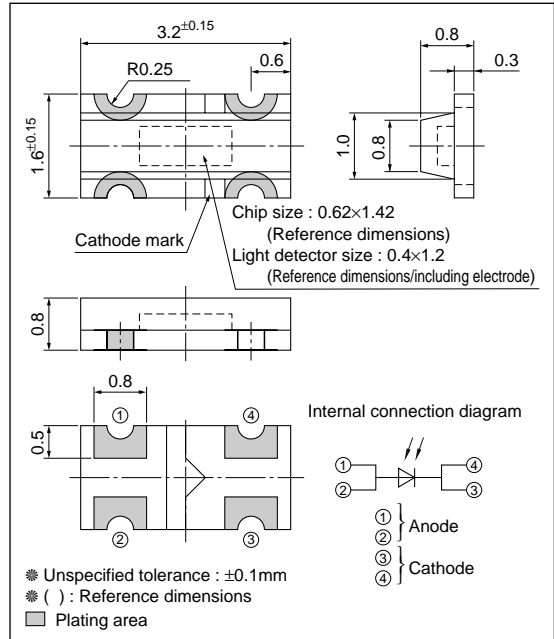
(Ta=25°C)

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}	E _v =1 000 lx	2.8	4.5	6.9	μA
Dark current	I _d	E _v =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	λ _p	–	–	940	–	nm
Response time	Rise time	t _r	–	50	250	ns
	Fall time	t _f	–	50	250	ns
Half intensity angle	Δθ	–	–	±65	–	°

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

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