GP1S28

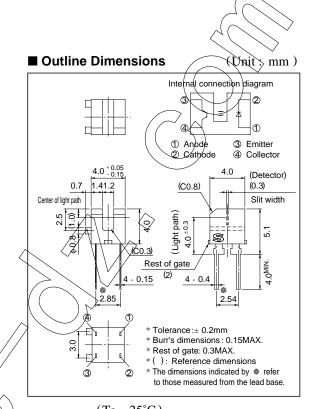
Subminiature Photointerrupter

Features

- 1. Ultra-compact
- 2. PWB mounting type package
- 3. High sensing accuracy (Slit width 0.3mm)
- 4. With mounting boss

Applications

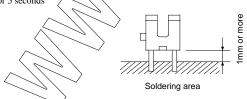
- 1. Cameras
- 2. Floppy disk drives



	e Maximum Ratings		()	a = 25 C
	Parameter	Symbol	Rating	Unit
	Forward current	I _F	50	mA
Input	Reverse voltage	V _R	6	V
	Power dissipation	Р	75	mW
	Collector-emitter voltage	V CEO	35	V
Outrast	Emitter-collector voltage	VECO	6	V
Output	Collector current	Ic	20	mA
	Collector power dissipation	Pc	75	mW
	Total power dissipation	\mathbf{P}_{tot}	100	mW
	Operating temperature	T _{opr} - 25 to + 85		°C
	Storage temperature		- 40 to + 100	°C
	*1Soldering temperature		260	°C

Absolute Maximum Ratings

*1 For 5 seconds



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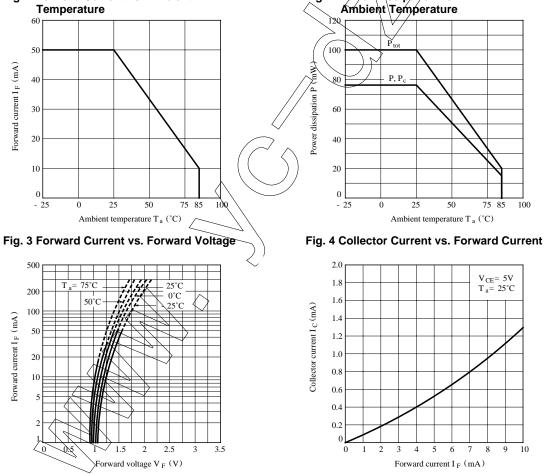
 $(Ta=25^{\circ}C)$

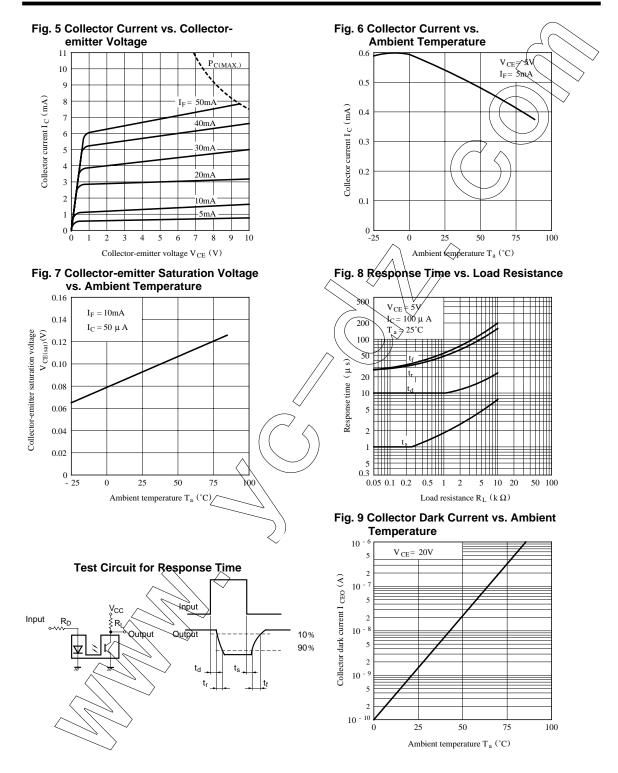
Electro-optical Characteristics

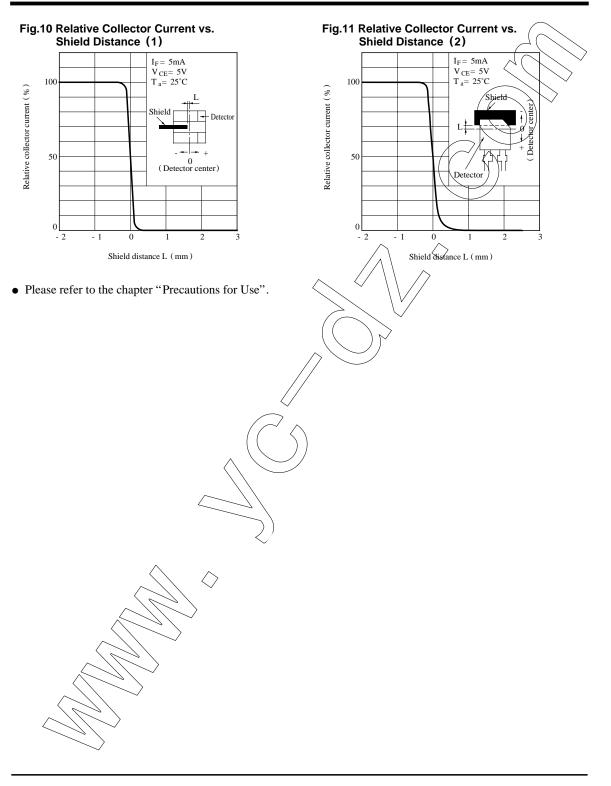
Parameter			Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage		V _F	$I_F = 20 m A$	-	1.2	$\sqrt{1}(4)$	V.
	Reverse current		IR	$V_R = 3V$	-	-	10	μA
Output	Collector dark current		ICEO	$V_{CE} = 20V$	-	1	1 x 10 -2	A
Trans-	Collector Current		Ic	$V_{CE} = 5V, I_F = 5mA$	100	(-(1300	μA
fer charac- teristics	Collector-emitter saturation	voltage	V CE(sat)	$I_F = 10mA$, $I_C = 50 \mu A$	-		0,4/	V
	Response time	Rise time	tr	$V_{CE}=5V, R_{L}=1k\Omega$	- /	50	_150	μs
		Fall time	tf	$I_C=100 \mu$ A	11	50	150	μs

Fig. 2 Power Dissipation vs.

Fig. 1 Forward Current vs. Ambient







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- Test and measurement equipment
- Industrial control
- Audio visual equipment
- Consumer electronics

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- Gas leakage sensor breakers
- Alarm equipment
- Various safety devices, etc.

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