imall

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.

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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!



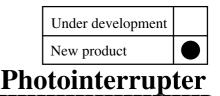
Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SHARP

GP1S096HCZ



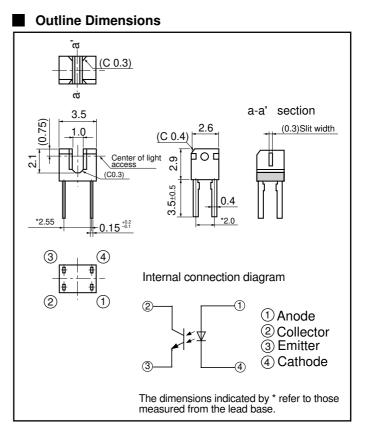
Subminiature, Low height, Transmissive Type Photointerrupter

Features

- (1) General purpose
- (2) Wide gap(Gap width: 1.0mm)
- (3) Low height(Height: 2.9mm)
- (4) Slit width(Detector side): 0.3mm

Applications

- (1) Cameras
- (2) CD-ROM drives
- (3) DVD-ROM drives
- (4) VCR



	Parameter	Symbol	Rating	Uni
Input	Forward current	$I_{\rm F}$	50	mA
	Reverse voltage	VR	6	V
	Power dissipation	Р	75	mW
Output	Collector-emitter voltage	V _{CEO}	35	V
	Emitter-collector voltage	V _{ECO}	6	V
	Collector current	I _C	20	mA
	Collector power dissipation	P _C	75	mW
Total power dissipation		Ptot	100	mW
Operating temperature		Topr	-25 to +85	°C
Storage temperature *1 Soldering temperature		T _{stg}	-40 to +100	°C
		T _{sol}	260	°C

*1 For 5s

(Notice)

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(Internet)

•Data for Sharp's optoelectronic/power devices is provided on internet. (Address http://www.sharp.co.jp/ecg/)

SHARP

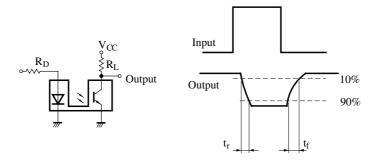
Photointerrupter

Electro-optical Characteristics

(Ta=25°C)

								(1a - 25)
Parameter			Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage		VF	IF=20mA	_	1.2	1.4	V
	Reverse current		Ir	V _R =3V	_	_	10	μA
Output	Collector dark current		Iceo	VCE=20V	_	_	100	nA
Transfer characteristics	Collector current		Ic	IF=5mA, VCE=5V	100	_	400	μΑ
	Collector-emitter saturation votlage		VCE(sat)	IF=10mA, Ic=40µA	_	_	0.4	V
	Response time	Rise time	tr	IC=100 μ A, VCE=5V, RL=1k Ω	_	50	150	μs
		Fall time	tſ		_	50	150	μs

Measuring Circuit of Response Time





NOTICE

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

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

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