

SG - 206

The SG - 206 photointerrupter high - performance standard type, combines high - output GaAs IRED with high sensitive phototransistor.

FEATURES

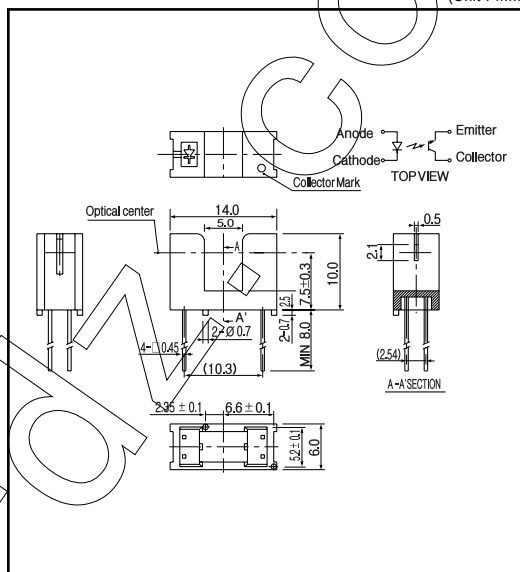
- High performance
- High - speed response
- 5mm gap.
- Widely applicable

APPLICATIONS

- Tape - end sensors
- Timing sensors
- Edge sensors
- Copiers

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Input	Power dissipation	100	mW
	Reverse voltage	5	V
	Forward current	60	mA
	Pulse forward current ^{*1}	1	A
Output	Collector power dissipation	100	mW
	Collector current	40	mA
	C - E voltage	30	V
	E - C voltage	5	V
	Operating temp.	- 20 ~ +85	
	Storage temp.	- 30 ~ +85	
	Soldering temp. ^{*2}	240	

*1. t w 100 μ sec. period : T=10msec.

*2. For MAX. 5 seconds at the position of 2mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Input	Forward voltage	$I_f = 30\text{mA}$		1.2	1.5	V
	Reverse current	$V_R = 5\text{V}$			10	μA
	Capacitance	$V = 0, f = 1\text{kHz}$		25		pF
	Peak wavelength			940		nm
Output	Collector dark current	$V_{CE} = 10\text{V}$			0.1	μA
	Light current	$V_{CE} = 5\text{V}, I_f = 20\text{mA}$	0.5			mA
	C - E saturation voltage	$I_f = 30\text{mA}, I_c = 0.1\text{mA}$			0.4	V
	Switching speeds	$V_{CC} = 5\text{V}, I_f = 2\text{mA}$		5		$\mu\text{sec.}$
		$R_L = 100\Omega$		5		$\mu\text{sec.}$

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