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## Position Sensitive Diodes

急出货

KODENSHI

# SD - 201 · SD - 202

The SD - 201, 202 are position sensors for automatic focusing of camera.

### FEATURES

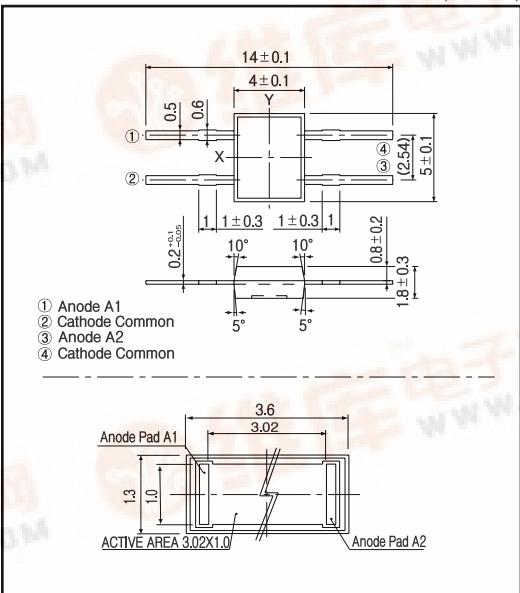
- Laser beam focusing/positioning is best performed.
- High performance.
- High reliability in demanding environments.

### APPLICATIONS

- Automatic focusing of camera

### DIMENSIONS

(Unit : mm)



### MAXIMUM RATINGS

(Ta=25 )

Item	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	30	V
Power dissipation	P <sub>D</sub>	30	mW
Operating temp.	T <sub>opr.</sub>	- 25 ~ +85	
Storage temp.	T <sub>stg.</sub>	- 30 ~ +100	

### ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25 )

Item	Symbol	Conditions	SD - 201			SD - 202			Unit.
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Reverse voltage	V <sub>R</sub>	I <sub>R</sub> =10 μA	30			30			V
Dark current	I <sub>D</sub>	V <sub>R</sub> =1V			10			10	nA
Light current	I <sub>L</sub> <sup>-1</sup>	V <sub>R</sub> =1V, E=1000lx <sup>5</sup>	20	30		13	16		μA
Spectral sensitivity			400~1100			700~1100			nm
Peak wavelength	λ			940			940		nm
Switching speeds	t <sub>r, tf</sub>	V <sub>R</sub> =1V, R=1K		2			2		μsec.
Capacitance	C <sub>t</sub>	V <sub>R</sub> =1V, f=1MHz		10			10		pF
Resistance	R <sub>s</sub> <sup>-2</sup>	V <sub>R</sub> =1V, V <sub>a</sub> =0.5V	100	150	200	100	150	200	K
Signal slope	<sup>-3</sup>	V <sub>R</sub> =1V		0.067			0.067		-
Light current difference	I <sub>L</sub> /I <sub>L</sub> <sup>-1</sup>				±2			±2	%

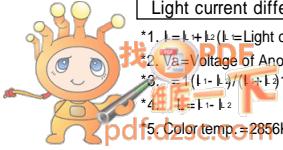
\*1. I=I<sub>1</sub>+I<sub>2</sub> (I=Light current of A1,I<sub>1</sub>=Light current of A2)

\*2. V<sub>a</sub>=Voltage of Anode A1,A2

\*3. α=(I<sub>1</sub>-I<sub>2</sub>)/(I<sub>1</sub>+I<sub>2</sub>)

\*4. I<sub>1</sub>=I<sub>2</sub>

\*5. Color temp. 225K standard Tungsten lamp



## Position Sensitive Diode

SD - 201 · SD - 202

