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## Position Sensitive Diodes

急出货

KODENSHI

# SD - 402

The SD - 402 is position sensors for automatic focusing of camera. It has 22 milimeter area.

### FEATURES

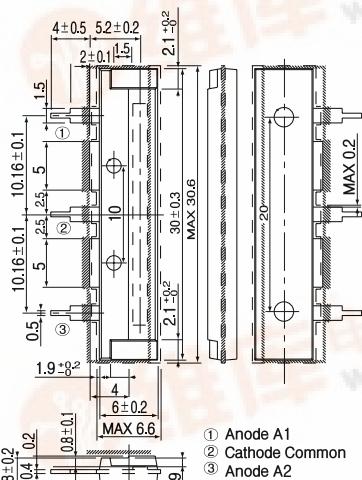
- Laser beam focusing/positioning is best performed
- High performance

### APPLICATIONS

- Optical disk

### DIMENSIONS

(Unit : mm)



### MAXIMUM RATINGS

(Ta=25 )

Item	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	15	V
Power dissipation	P <sub>D</sub>	30	mW
Operating temp.	T <sub>opr.</sub>	- 20 ~ +85	
Storage temp.	T <sub>stg.</sub>	- 25 ~ +90	

### ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25 )

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Reverse voltage	V <sub>R</sub>	I <sub>R</sub> =10 μA	15			V
Dark current	I <sub>D</sub>	V <sub>R</sub> =1V			10	nA
Light current	I <sub>L</sub> <sup>-1</sup>	V <sub>R</sub> =1V, E=1000lx <sup>5</sup>	100	120		μA
Spectral sensitivity				700~1,100		nm
Peak wavelength	λ <sub>p</sub>			940		nm
Capacitance	C <sub>t</sub>	V <sub>R</sub> =1V, f=1MHz		30		pF
Resistance	R <sub>s</sub> <sup>-2</sup>	V <sub>R</sub> =1V, V <sub>A</sub> =0.5V	140	200	260	K
Signal slope	- <sup>3</sup>	V <sub>R</sub> =1V		0.036		-
Light current difference	I <sub>L</sub> /I <sub>L</sub> <sup>-1</sup>				± 2	%

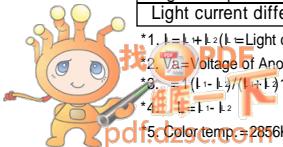
\*1. I = I<sub>1</sub>+I<sub>2</sub> (I = Light current of A1, I<sub>1</sub> = Light current of A2)

\*2. V<sub>A</sub> = Voltage of Anode A1

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

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

\*5. Color temp. 255K standard Tungsten lamp



## Position Sensitive Diode

SD - 402

