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Position Sensitive Diodes

SD - 612

急出货

KODENSHI

The SD - 612 is position sensors for automatic focusing of camera.

FEATURES

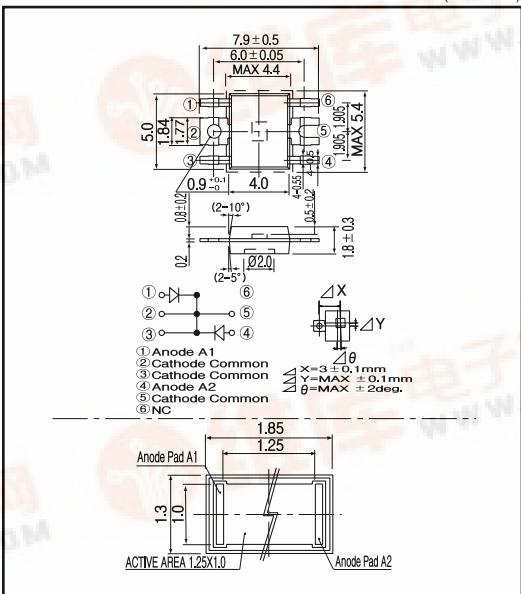
- Visible ray cut off flat package.
- Laser beam focusing/positioning is best performed.
- With alignment hole.

APPLICATIONS

- Automatic focusing of camera
- Position sensors

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	15	V
Power dissipation	P _D	30	mW
Operating temp.	T _{opr.}	- 25 + 85	
Storage temp.	T _{stg.}	- 30 + 100	
Soldering temp. ¹	T _{sol.}	260	

*1. 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.
Collector dark current	I _d	V _R = 1V			5	nA
Light current ²	I _L	V _R = 1V, E = 1000lx ³	6	9		µA
Spectral sensitivity				700~1100		nm
Peak wavelength	λ			920		nm
Switching speeds	t _{r,tf}	V _R = 1V, R = 1K		2		µsec.
Capacitance	C _t	V _R = 1V, f = 1MHz		10		pF
Resistance ⁴	R _s	V _R = 1V, V _A = 0.5V	100	150	200	K
Signal slope ⁵		V _R = 1V		0.160		
Light current difference	I _{L1} /I _{L2}				± 2	%

², I_L = I_{L1} + I_{L2} (I_L = Light current of A1, I_L = Light current of A2)

³, Color temp. = 2856K standard Tungsten lamp

⁴, V_A = Voltage of Anode A1,A2

⁵, I_{L1} = I_L × F₁ / (F₁ + F₂)

Position Sensitive Diode

SD - 612

