

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

FEATURES

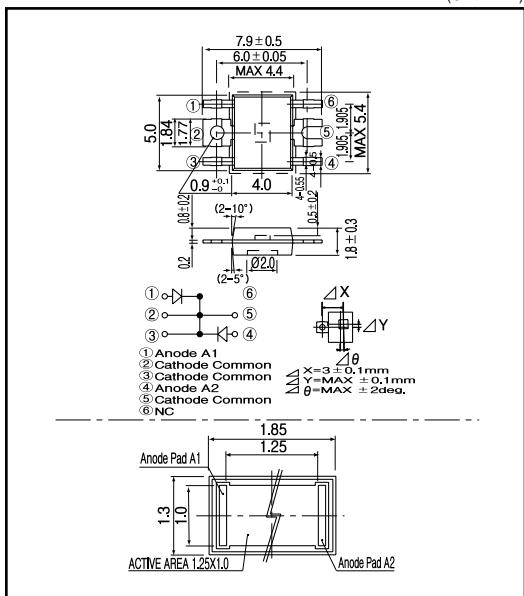
- Visible ray cut off flat package.
- Laser beam focusing/positioning is best performed.
- With alignment hole.

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.	Topr.	- 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 _λ = 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 _L /I _{L'}				± 2	%

*2. I = I + I_L (I = 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_L - I_{L'})/(I_L + I_{L'})

Position Sensitive Diode

SD - 612

