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Position Sensitive Diodes

KODENSHI

SD - 303 · SD - 306

The SD - 303, 306 are position sensors for automatic focusing of camera.

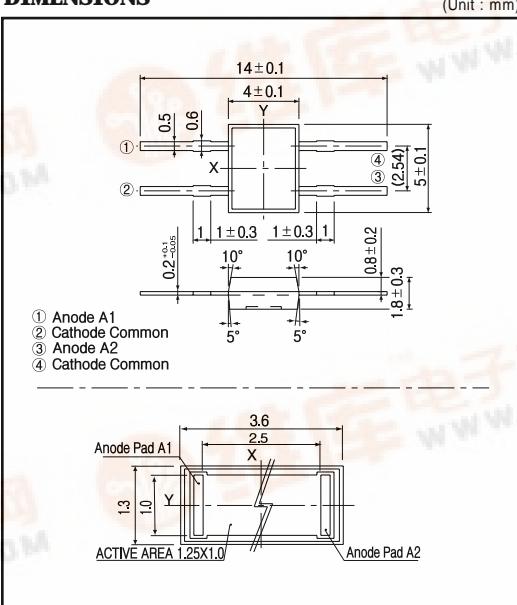
FEATURES

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

APPLICATIONS

- Automatic focusing of camera

DIMENSIONS



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	30	V
Power dissipation	P _D	30	mW
Operating temp.	To pr.	-25~+85	
Storage temp.	T stg.	-30~+100	

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25)

Item	Symbol	Conditions	SD - 303			SD - 306			Unit.
			Min.	Typ.	Max.	Min.	Typ.	Max.	
Reverse voltage	V _R	I _R =10 μA	30			30			V
Dark current	I _D	V _R =1V		0.2	5		0.2	5	nA
Light current	I _L ⁻¹	V _R =1V, E=1000lx ⁵	10	13		10	13		μA
Spectral sensitivity			720~1100			720~1100			nm
Peak wavelength	λ			940			940		nm
Switching speeds	t _r , t _f	V _R =1V, R _L =1k		2			2		μsec.
Capacitance	C _t	V _R =1V, f=1MHz		10			14		pF
Resistance	R _s ⁻²	V _R =1V, V _a =0.5V	230	280	350	100	140	190	K
Signal slope	⁻³	V _R =1V		0.08			0.08		-
Light current difference	I _L /I _L ⁻¹				±2			±2	%

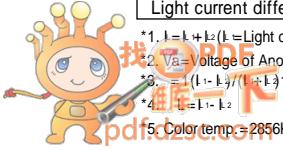
*1. I = I₁ + I₂ (I = Light current of A1, I = Light current of A2)

*2. V_a=Voltage of Anode A1,A2

*3. I_L = (I₁ + I₂)/(I₁ + I₂)

*4. I₁ = I₂

5. Color temp. 255K standard Tungsten lamp



Position Sensitive Diode

SD - 303 · SD - 306

