

# Infrared Emitting Diodes(GaAs)

KODENSHI

EL - 302 · EL - 303

The EL - 302 a high - power GaAs IRED mounted in a clear sidelooking package, is compact, low profile, and easy to mount.

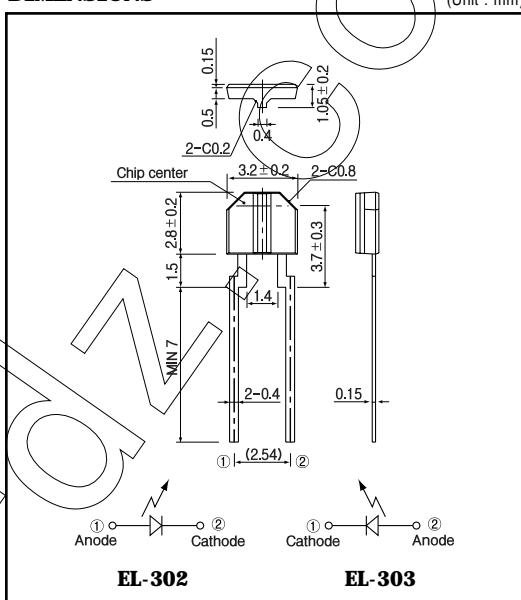
## FEATURES

- Compact
- Low profile package
- Low - cost
- Sidelooking plastic package

## APPLICATIONS

- Photointerrupters
- Optical switches
- Toys

## DIMENSIONS



## MAXIMUM RATINGS

Item	Symbol	Rating	Unit
Reverse voltage	$V_R$	5	V
Forward current	$I_F$	50	mA
Pulse forward current <sup>*1</sup>	$I_{FP}$	0.5	A
Power dissipation	$P_D$	75	mW
Operating temp.	Topr.	- 25 ~ + 85	
Storage temp.	Tstg.	- 30 ~ + 100	
Soldering temp. <sup>*2</sup>	Tsol.	240	

<sup>\*1</sup>. pulse width : tw 100  $\mu$ sec. period : T=10msec.

<sup>\*2</sup>. For MAX.5 seconds at the position of 2 mm from the package

## ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25 )

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Forward voltage	$V_F$	$I_F=50mA$			1.6	V
Reverse current	$I_R$	$V_R=5V$			10	mA
Capacitance	$C_t$	$f=1MHz$		25		pF
Radiant intensity	$P_o$	$I_F=50mA$		0.7		mW/sr
Peak emission wavelength	$\lambda$	$I_F=50mA$		940		nm
Spectral bandwidth 50%		$I_F=50mA$		50		nm
Half angle			$\pm 30$			deg.

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