

The EL - 305 a high - power GaAs IRED mounted in a clear sidelooking package, is compact, low profile, and easy to mount.

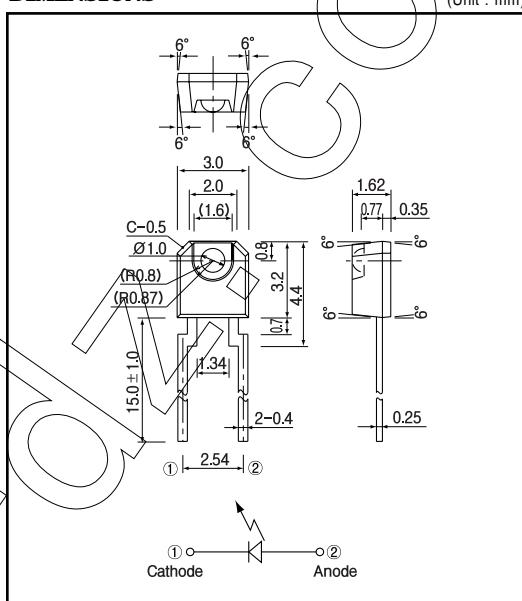
FEATURES

- 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 ^{*1}	I_{FP}	0.5	A
Power dissipation	P_D	75	mW
Operating temp.	Topr.	- 25 ~ + 85	
Storage temp.	Tstg.	- 30 ~ + 85	
Soldering temp. ^{*2}	Tsol.	240	

^{*1}. pulse width : tw 100 μ sec. period : T=10msec.

^{*2}. 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	$I_F=20\text{mA}$		1.2	1.5	V
Reverse current	I_R	$V_R=5\text{V}$			10	μA
Capacitance	C_t	$f=1\text{MHz}$		25		pF
Radiant intensity	P_o	$I_F=20\text{mA}$		1.0		mW/sr
Peak emission wavelength	λ	$I_F=20\text{mA}$		940		nm
Spectral bandwidth, 50%		$I_F=20\text{mA}$		50		nm
Half-angle			± 20			deg.

Infrared Emitting Diodes(GaAs)

EL - 305

