

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

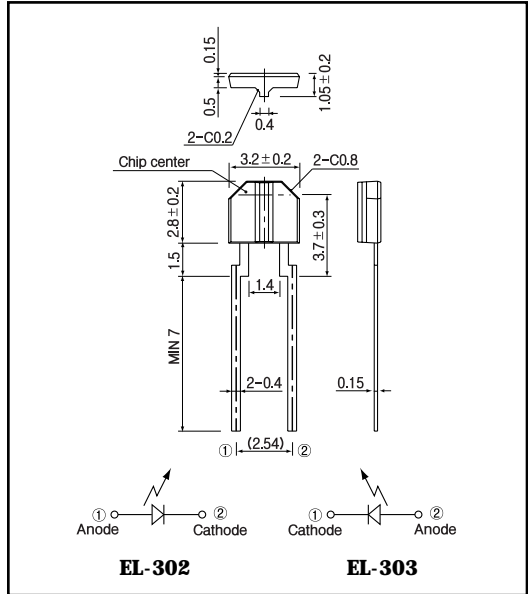
- Compact
- Low profile package
- Low - cost
- Sidelooking plastic package

APPLICATIONS

- Photointerrupters
- Optical switches
- Toys

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25)

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.	$T_{opr.}$	- 25 ~ +85	
Storage temp.	$T_{stg.}$	- 30 ~ +100	
Soldering temp. *2	$T_{sol.}$	240	

*1. pulse width : t_w 100 μ sec.period : $T=10$ msec.

*2. For MAX.5 seconds at the position of 2 mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

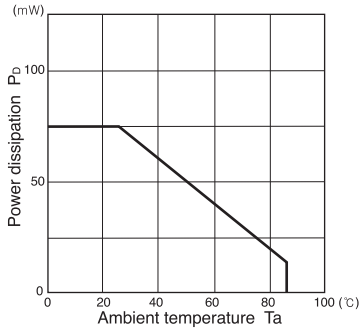
(Ta=25)

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

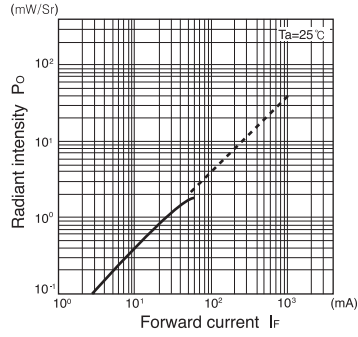
Infrared Emitting Diodes(GaAs)

EL - 302 · EL - 303

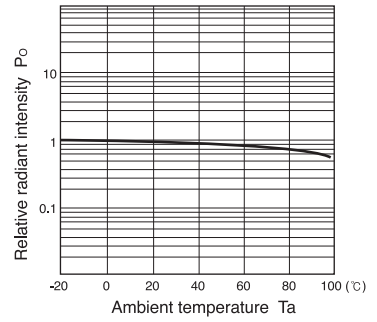
Power dissipation Vs. Ambient temperature



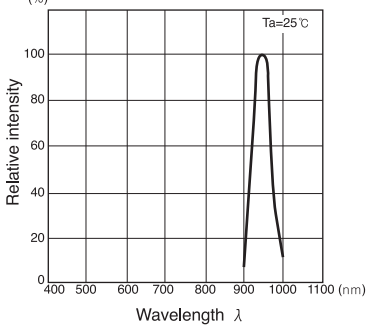
Radiant intensity Vs. Forward current



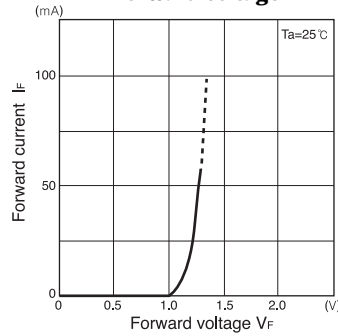
Relative radiant intensity Vs. Ambient temperature



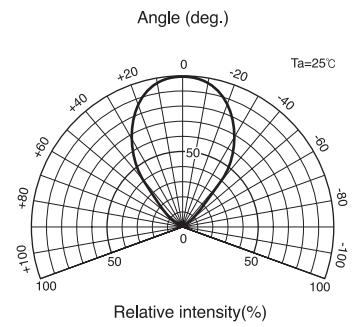
Relative intensity Vs. Wavelength



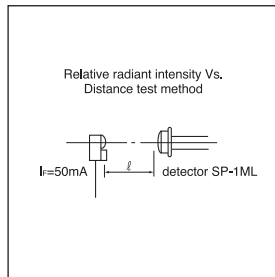
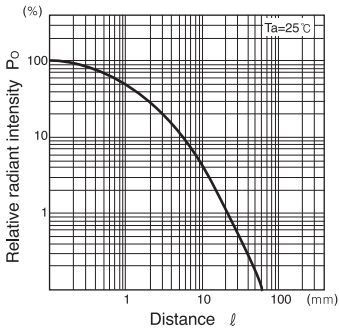
Forward current vs. Forward voltage



Radiant Pattern



Relative radiant intensity Vs. Distance





LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.