

The EL - 313 is a high - power GaAs IRED mounted in a clear side - viewing package. This IRED is both compact and easy to mount.

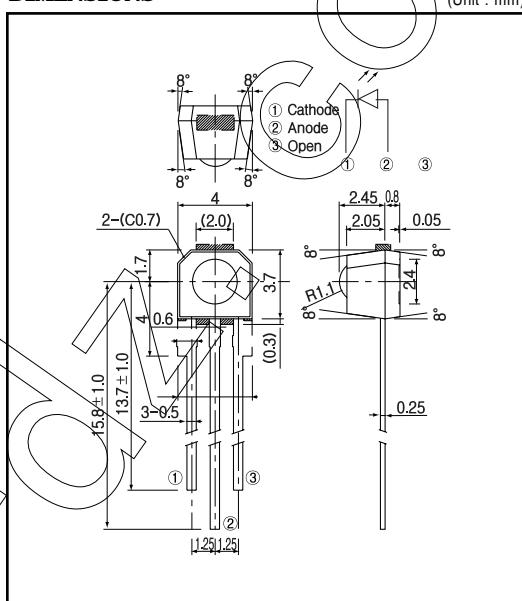
FEATURES

- Compact plastic mold type

APPLICATIONS

- Optical switches
- Transmission sensors

DIMENSIONS



MAXIMUM RATINGS

Item	Symbol	Rating	Unit
Reverse voltage	V_R	4	V
Forward current	I_F	50	mA
Power dissipation	P_D	100	mW
Pulse forward current ^{*1}	I_{FP}	1	A
Operating temp.	T _{opr.}	- 20 + 85	
Storage temp.	T _{stg.}	- 30 + 85	
Soldering temp. ^{*2}	T _{sol.}	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	$I_F=30\text{mA}$		1.2	1.5	V
Reverse current	I_R	$V_R=4V$			10	μA
Peak emission wavelength	λ	$I_F=20\text{mA}$		940		nm
Radiant intensity ^{*3}	P_0	$I_F=30\text{mA}$		2.0		mW
Half angle				± 20		deg.

^{*3}. Exclusive P₀ is used as detector

Infrared Emitting Diodes(GaAs)

EL - 313

