

EL - 1ML2

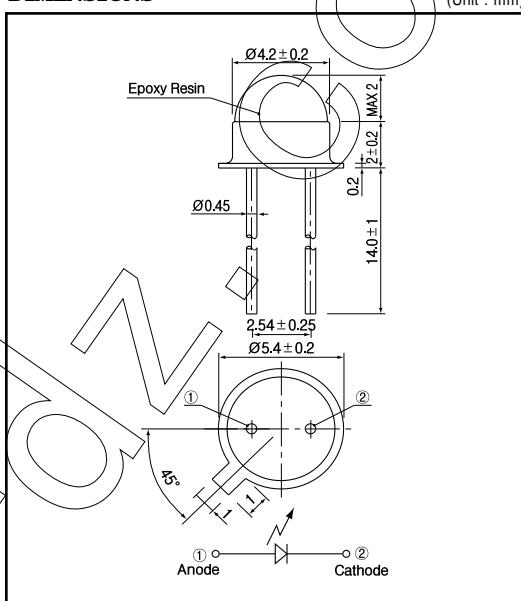
The EL - 1ML2, a high - power GaAs IRED mounted in a TO - 18 type header with clear epoxy encapsulation, has wide beam angle and is relatively low - cost compared to TO - 18 can - type devices.

FEATURES

- Wide beam angle
- Relative low cost against metal can package
- Low profile package

APPLICATIONS

- Optical switches
- Encoders
- Optical readers

DIMENSIONS**MAXIMUM RATINGS**

Item	Symbol	Rating	Unit
Reverse voltage	V_R	5	V
Forward current	I_F	100	mA
Pulse forward current ^{*1}	I_{FP}	1	A
Power dissipation	P_D	170	mW
Operating temp.	Topr.	- 25 ~ + 100	
Storage temp.	Tstg.	- 25 ~ + 100	
Soldering temp. ^{*2}	Tsol.	260	

^{*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	$I_F=50\text{mA}$		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	$I_F=50\text{mA}$		2.7		mW/sr
Peak emission wavelength	λ	$I_F=50\text{mA}$		940		nm
Spectral bandwidth 50%		$I_F=50\text{mA}$		50		nm
Half-angle				± 32		deg.

Infrared Emitting Diodes(GaAs)

EL - 1ML2

