

Infrared Emitting Diodes(GaAs)

KODENSHI

EL - 1CL3

The EL - 1CL3 is a high - power GaAs IRED mounted in a 3 ø low - cost ceramic package, designed for use as low - cost emitter array in consumer and industrial applications.

FEATURES

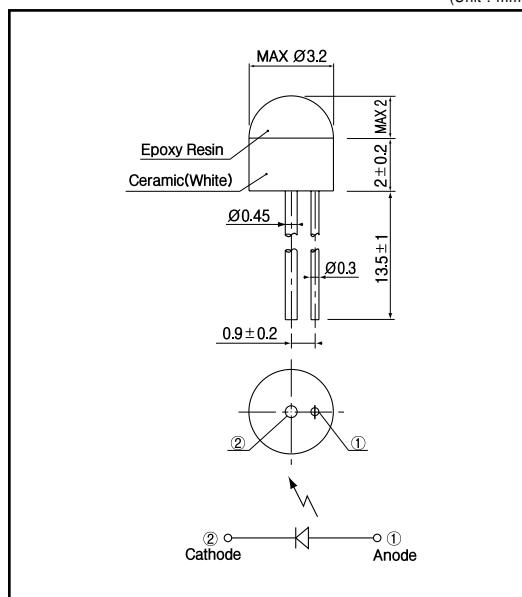
- Compact ($\varnothing 3\text{mm}$)
- Wide beam angle
- Low - cost

APPLICATIONS

- Floppy disk drives
- Optical switches
- Optical readers

DIMENSIONS

(Unit : mm)

**MAXIMUM RATINGS**

(Ta=25 °C)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	4	V
Forward current	I _F	60	mA
Pulse forward current ^{*1}	I _{FP}	0.5	A
Power dissipation	P _D	80	mW
Operating temp.	T _{opr.}	- 20 ~ + 70	
Storage temp.	T _{stg.}	- 20 ~ + 80	
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 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Forward voltage	V _F	I _F =40mA		1.2	1.5	V
Reverse current	I _R	V _R =4V			10	µA
Capacitance	C _t	f=1MHz		25		pF
Radiant intensity	P _O	I _F =40mA		1.8		mW/sr
Peak emission wavelength	λ	I _F =40mA		940		nm
Spectral bandwidth 50%		I _F =40mA		50		nm
Half angle				±53		deg.

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