

The CL - 1CL3 is a high - power GaAlAs IRED mounted in a 3ø ceramic package. The output power is so high compared to GaAs IREDS.

FEATURES

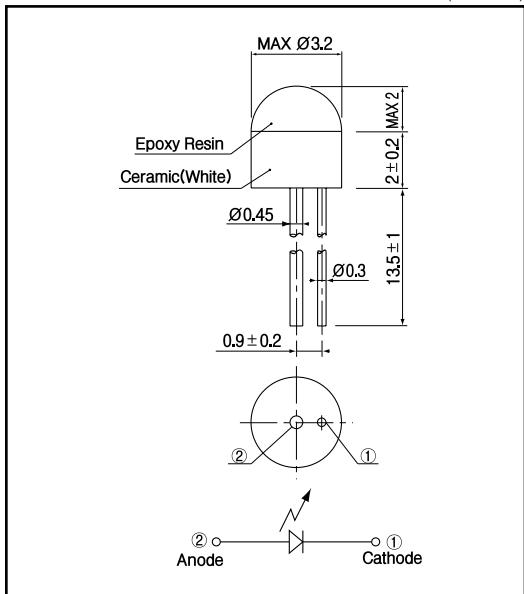
- Compact ($\varnothing 3\text{mm}$)
- Wide beam angle
- Low - cost

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	90	mW
Operating temp.	T _{opr.}	- 20 ~ + 70	
Storage temp.	T _{stg.}	- 30 ~ + 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			1.5	V
Reverse current	I _R	V _R =4V			10	mA
Capacitance	C _t	f=1MHz		20		pF
Radiant intensity	P _O	I _F =40mA		3.6		mW/sr
Peak emission wavelength	λ	I _F =40mA		880		nm
Spectral bandwidth 50%		I _F =40mA		50		nm
Half angle				± 53		deg.

Infrared Emitting Diodes(GaAlAs)

CL - 1CL3

