

## EL - 1CL3

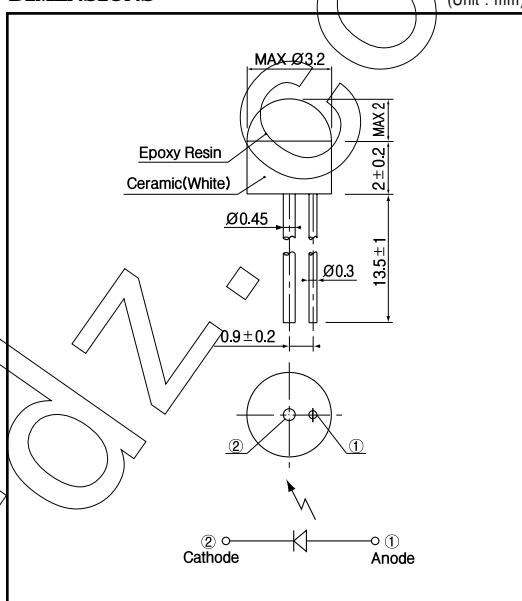
The EL - 1CL3 is a high - power GaAs IRED mounted in a 3ø low - cost ceramic package, designed for use as low - cost emitter array in consumer and industrial applications.

**FEATURES**

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

**APPLICATIONS**

- Floppy disk drives
- Optical switches
- Optical readers

**DIMENSIONS****MAXIMUM RATINGS**

Item	Symbol	Rating	Unit
Reverse voltage	$V_R$	4	V
Forward current	$I_F$	60	mA
Pulse forward current <sup>*1</sup>	$I_{FP}$	0.5	A
Power dissipation	$P_D$	80	mW
Operating temp.	Topr.	- 20 ~ + 70	
Storage temp.	Tstg.	- 20 ~ + 80	
Soldering temp. <sup>*2</sup>	Tsol.	240	

<sup>\*1</sup>. pulse width : tw 100  $\mu$ sec. period : T=10msec.

<sup>\*2</sup>. 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	$V_F$	$I_F=40\text{mA}$		1.2	1.5	V
Reverse current	$I_R$	$V_R=4\text{V}$			10	$\mu\text{A}$
Capacitance	$C_t$	$f=1\text{MHz}$		25		pF
Radiant intensity	$P_o$	$I_F=40\text{mA}$		1.8		$\text{mW}/\text{sr}$
Peak emission wavelength	$\lambda$	$I_F=40\text{mA}$		940		nm
Spectral bandwidth 50%		$I_F=40\text{mA}$		50		nm
Half-angle				$\pm 53$		deg.

## Infrared Emitting Diodes(GaAs)

EL - 1CL3

