

The ML - 1CL3 is a high - power GaAlAs IRED mounted in a 3ø ceramic package.

### FEATURES

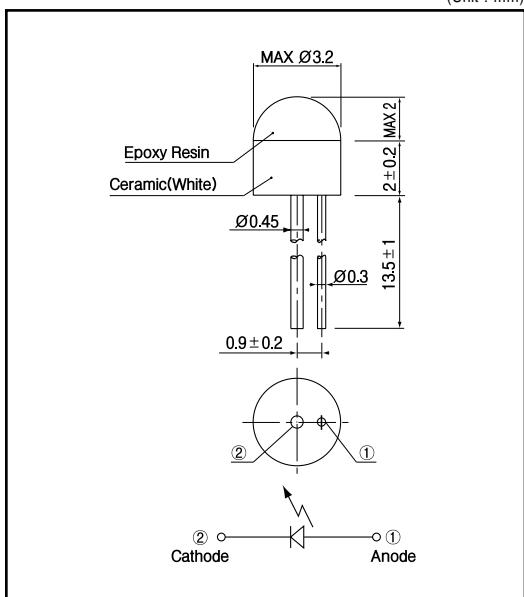
- ø 3 ceramic base
- Peak emission wavelength  $\lambda = 865\text{nm}$
- Wide beam angle  $\pm 53\text{deg.}$

### APPLICATIONS

- Optical switches
- Encoders
- OA

### DIMENSIONS

(Unit : mm)



### MAXIMUM RATINGS

(Ta=25 )

Item	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	3	V
Forward current	I <sub>F</sub>	50	mA
Power dissipation	P <sub>D</sub>	80	mW
Pulse forward current <sup>1)</sup>	I <sub>FP</sub>	0.5	A
Operating temp.	T <sub>opr.</sub>	- 20 + 70	
Storage temp.	T <sub>stg.</sub>	- 20 + 80	
Soldering temp. <sup>2)</sup>	T <sub>sol.</sub>	240	

\*1. pulse width : tw 100  $\mu$ 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 <sub>F</sub>	I <sub>F</sub> =50mA		1.4	1.7	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =3V			10	$\mu$ A
Peak emission wavelength	$\lambda$	I <sub>F</sub> =20mA		865		nm
Spectral bandwidth		I <sub>F</sub> =20mA		30		nm
Radiant intensity <sup>3)</sup>	P <sub>O</sub>	I <sub>F</sub> =20mA	50			mV
Half angle				$\pm 53$		deg.

\*3. Measured by tester of KODENSHI CORP.

# Infrared Emitting Diodes(GaAlAs)

ML - 1CL3

