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## Infrared Emitting Diodes(GaAlAs)

KODENSHI

CL - 1CL3

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.

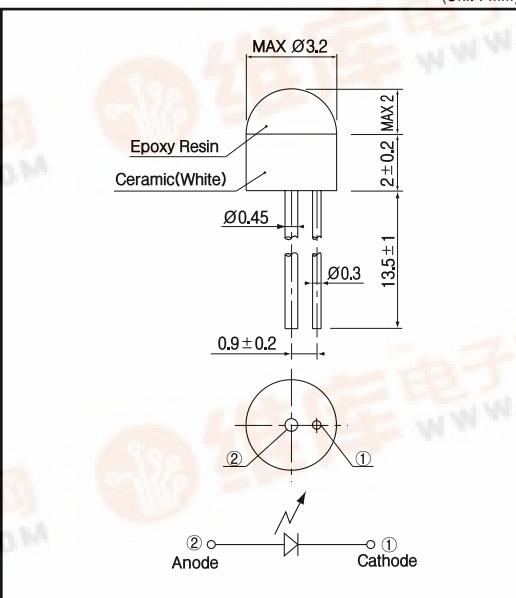
### FEATURES

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

### APPLICATIONS

- Floppy disk drives
- Optical switches
- Optical readers

### DIMENSIONS



### MAXIMUM RATINGS

(Ta=25 )

Item	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	4	V
Forward current	I <sub>F</sub>	60	mA
Pulse forward current <sup>**1</sup>	I <sub>FP</sub>	0.5	A
Power dissipation	P <sub>D</sub>	90	mW
Operating temp.	T <sub>opr.</sub>	- 20 ~ + 70	
Storage temp.	T <sub>stg.</sub>	- 30 ~ + 80	
Soldering temp. <sup>**2</sup>	T <sub>sol.</sub>	240	

\*1. pulse width : t<sub>w</sub> = 100  $\mu$ sec. period : T = 10msec.

\*2. For MAX.5 seconds at the position of 2 mm from the package

### ELECTRO-OPTICAL CHARACTERISTICS

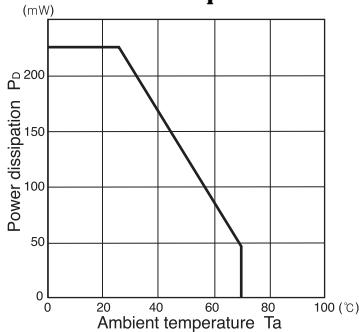
(Ta=25 )

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =40mA			1.5	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =4V			10	$\mu$ A
Capacitance	C <sub>t</sub>	f=1MHz		20		pF
Radiant Intensity	P <sub>O</sub>	I <sub>F</sub> =40mA		3.6		mW/sr
Peak emission wavelength	$\lambda$	I <sub>F</sub> =40mA		880		nm
Spectral bandwidth 50%		I <sub>F</sub> =40mA		50		nm
Half angle				$\pm 53$		deg.

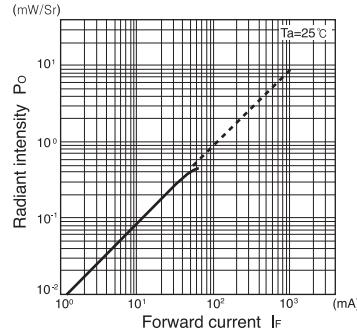
## Infrared Emitting Diodes(GaAlAs)

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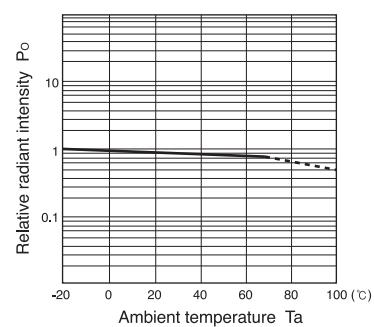
**Power dissipation Vs.  
Ambient temperature**



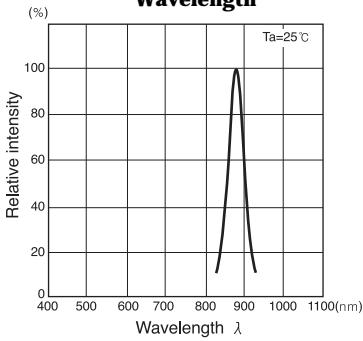
**Radiant intensity Vs.  
Forward current**



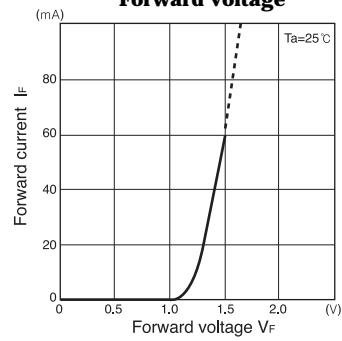
**Relative radiant intensity Vs.  
Ambient temperature**



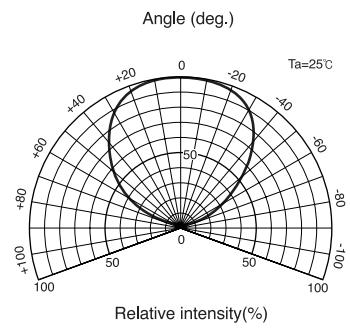
**Relative intensity Vs.  
Wavelength**



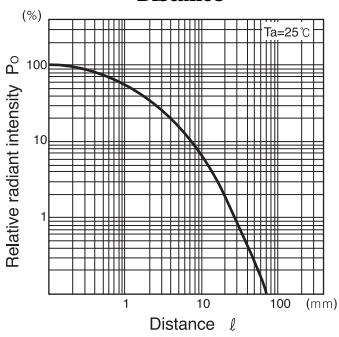
**Forward current Vs.  
Forward voltage**



**Radiant Pattern**



**Relative radiant intensity Vs.  
Distance**



Relative radiant intensity Vs.  
Distance test method

