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Infrared Emitting Diodes(GaAlAs)

KODENSHI

ML - 1CL3

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

FEATURES

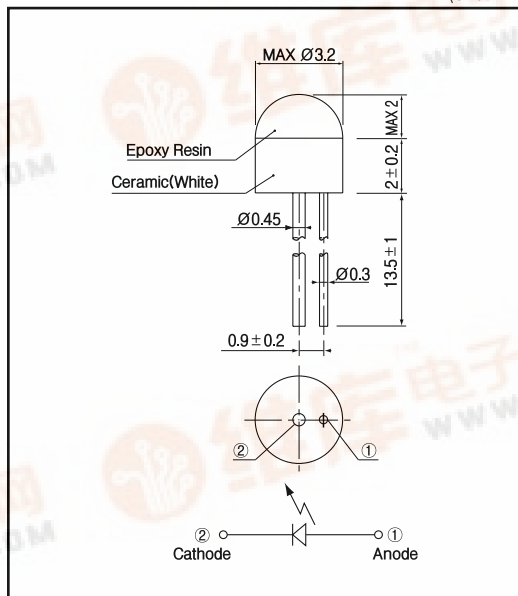
- $\varnothing 3$ ceramic base
- Peak emission wavelength $\lambda_p=865\text{nm}$
- Wide beam angle $\pm 53\text{deg}$.

APPLICATIONS

- Optical switches
- Encoders
- OA

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25°C)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	3	V
Forward current	I _F	50	mA
Power dissipation	P _o	80	mW
Pulse forward current ¹	I _{FP}	0.5	A
Operating temp.	T _{opr.}	-20 +70	°C
Storage temp.	T _{stg.}	-20 +80	°C
Soldering temp. ²	T _{sol.}	240	°C

*1. pulse width : $t_w \leq 100 \mu\text{sec}$. period : $T=10\text{msec}$.

*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 =50mA		1.4	1.7	V
Reverse current	I _R	V _R =3V			10	μA
Peak emission wavelength	λ_p	I _F =20mA		865		nm
Spectral bandwidth	$\Delta \lambda$	I _F =20mA		30		nm
Radiant intensity ³	P _o	I _F =20mA	50			mW
Half angle	$\Delta \theta$			±53		deg.

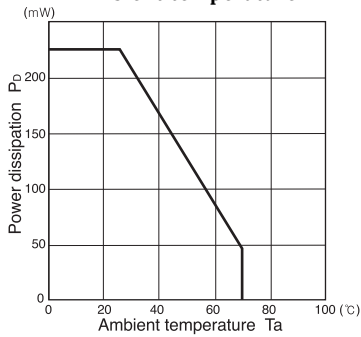
*3. Measured by tester of KODENSHI CORP.



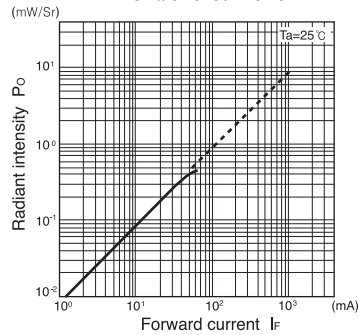
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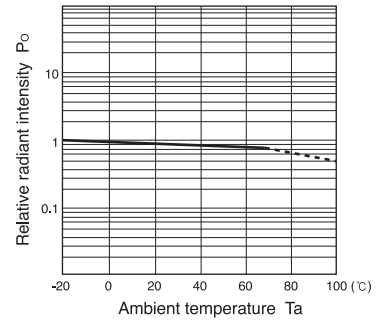
**Power dissipation Vs.
Ambient temperature**



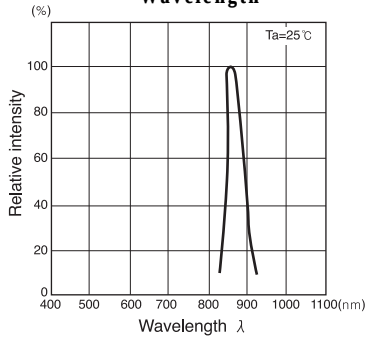
**Radiant intensity Vs.
Forward current**



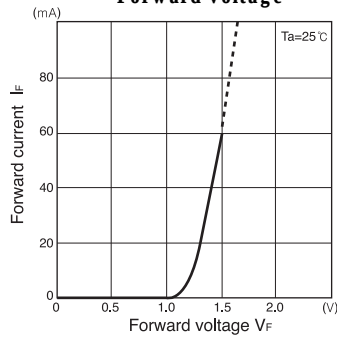
**Relative radiant intensity Vs.
Ambient temperature**



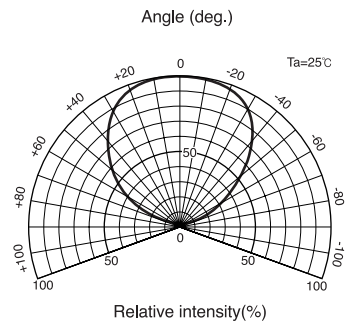
**Relative intensity Vs.
Wavelength**



**Forward current Vs.
Forward voltage**



Radiant Pattern



**Relative radiant intensity Vs.
Distance**

