

Infrared Emitting Diodes(GaAlAs)

KODENSHI

CL - 208

The CL - 208 is a high - power GaAlAs IRED mounted in durable, hermetically sealed TO - 18 metal can package, providing years of reliable performance even under demanding conditions such as use outdoors.

FEATURES

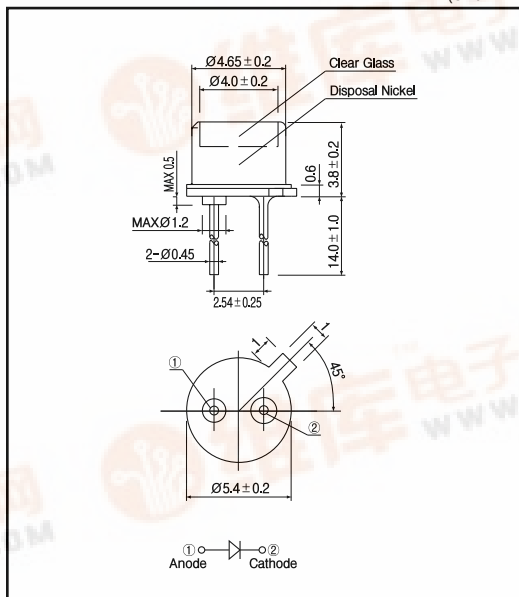
- High output power
- High reliability
- Flat glass lens

APPLICATIONS

- Optical switches
- Transportation sensors

DIMENSIONS

(Unit : mm)



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	5	V
Forward current	I_F	80	mA
Power dissipation	P_o	130	mW
Pulse forward current ^{*1}	I_{FP}	0.8	A
Operating temp.	Topr.	- 20 +80	
Storage temp.	Tstg.	- 20 +80	
Soldering temp. ^{*2}	Tsol.	240	

*1. pulse width : tw 100 pec.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_F	$I_F=20mA$		1.3	1.6	V
Reverse current	I_R	$V_R=5V$			10	μA
Peak emission wavelength ^{*3}	λ_p	$I_F=50mA$		880		nm
Spectral bandwidth	$\Delta \lambda$	$I_F=50mA$		70		nm
Radiant intensity	P_o	$I_F=20mA$		35		mV
Half angle	$\Delta \theta$			± 40		deg.

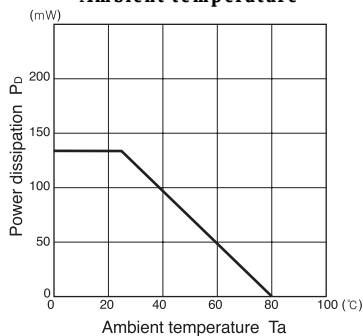
*3. Measured by tester of KODENSHI CORP.



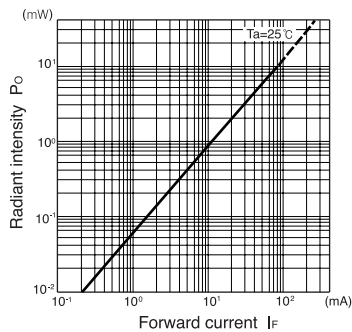
Infrared Emitting Diodes(GaAlAs)

CL - 208

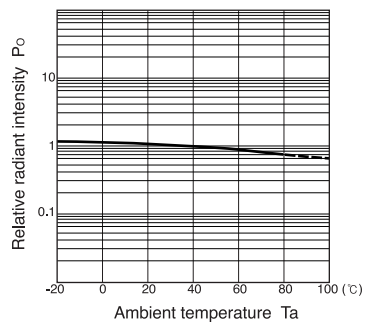
**Power dissipation Vs.
Ambient temperature**



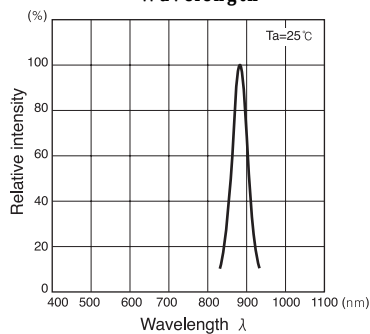
**Radiant intensity Vs.
Forward current**



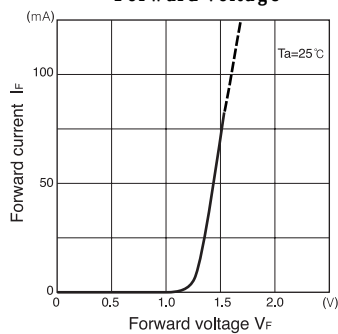
**Relative radiant intensity Vs.
Ambient temperature**



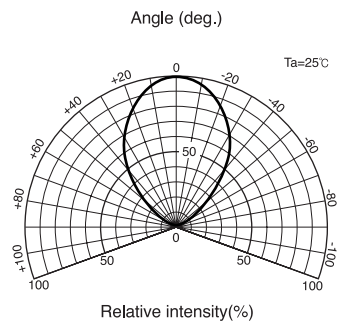
**Relative intensity Vs.
Wavelength**



**Forward current Vs.
Forward voltage**



Radiant Pattern



**Relative radiant intensity Vs.
Distance**

