

CL - 207

The CL - 207 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

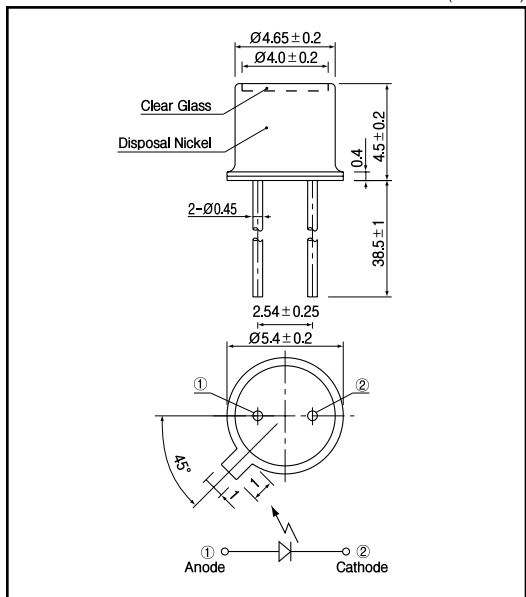
- High output power
- High reliability

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	100	mA
Power dissipation	P_D	150	mW
Pulse forward current ^{*1}	I_{FP}	1	A
Operating temp.	$T_{opr.}$	- 30 + 100	
Storage temp.	$T_{stg.}$	- 30 + 100	
Soldering temp. ^{*2}	$T_{sol.}$	240	

*1. pulse width : t_w 100 μ sec, period : $T=10$ msec.

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

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25)

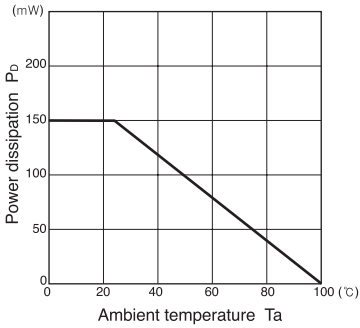
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Forward voltage	V_F	$I_F=20$ mA		1.3	1.6	V
Reverse current	I_R	$V_R=5$ V			10	μ A
Peak emission wavelength ^{*3}	λ_p	$I_F=20$ mA		880		nm
Spectral bandwidth		$I_F=20$ mA		80		nm
Radiant intensity	P_O	$I_F=20$ mA		56		mV
Half angle				± 35		deg.

*3. Measured by tester of KODENSHI CORP.

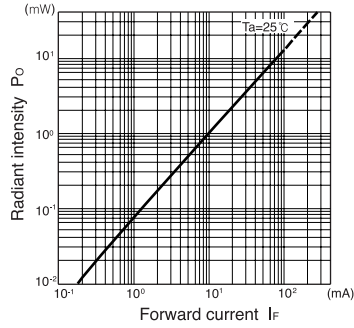
Infrared Emitting Diodes(GaAlAs)

CL - 207

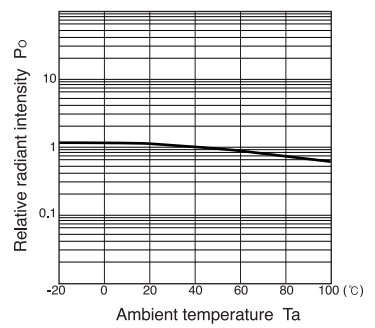
Power dissipation Vs. Ambient temperature



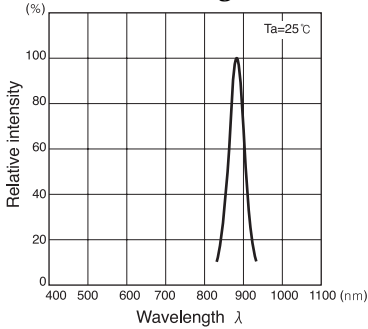
Radiant intensity Vs. Forward current



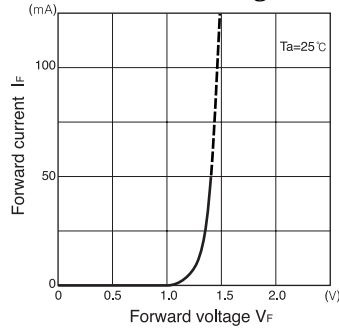
Relative radiant intensity Vs. Ambient temperature



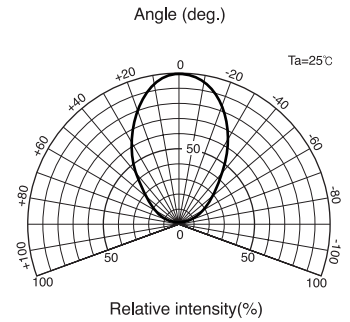
Relative intensity Vs. Wavelength



Forward current Vs. Forward voltage



Radiant Pattern



Relative radiant intensity Vs. Distance

