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急出货

KODENSHI

Infrared Emitting Diodes(GaAlAs)

CL - 203

The CL - 203 is a high - power GaAlAs IRED, with precision optical designed lens. It emits parallel infrared lights.

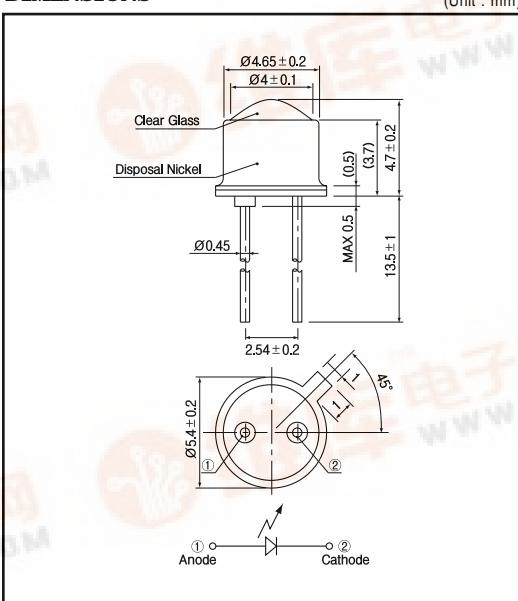
FEATURES

- Parallel rays
- High reliability
- Flat radiation pattern
- Compact

APPLICATIONS

- Encoders
- High performance - linear sensor

DIMENSIONS



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Reverse voltage	V _R	5	V
Forward current	I _F	80	mA
Pulse forward current	I _{FP}	800	mA
Power dissipation	P _C	160	mW
Operating temp.	T _{opr.}	- 40 ~ + 100	
Storage temp.	T _{stg.}	- 55 ~ + 125	
Soldering temp. ¹	T _{sol.}	260	

¹. For MAX.5 seconds at the position of 2 mm from the package

ELECTRO-OPTICAL CHARACTERISTICS

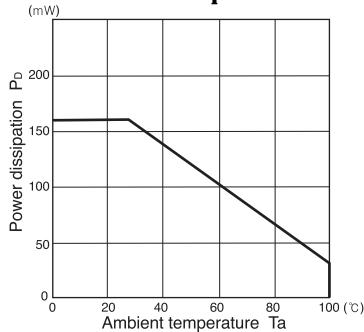
(Ta=25)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Forward voltage	V _F	I _F =50mA		1.4	2.0	V
Reverse current	I _R	V _R =5V			10	µA
Capacitance	C _t	f=1MHz		18		pF
Radiant Intensity	P _o	I _F =50mA		2.8		mW/sr
Peak emission wavelength	λ	I _F =50mA		880		nm
Spectral bandwidth 50%		I _F =50mA		50		nm
Half angle					± 9	deg.

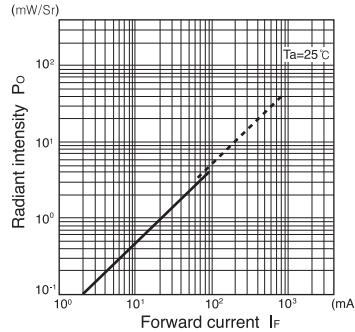
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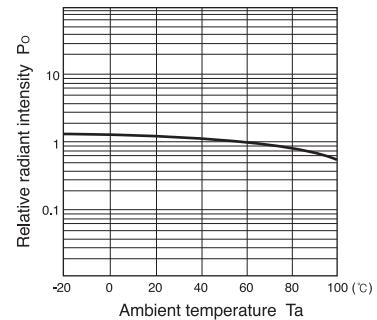
**Power dissipation Vs.
Ambient temperature**



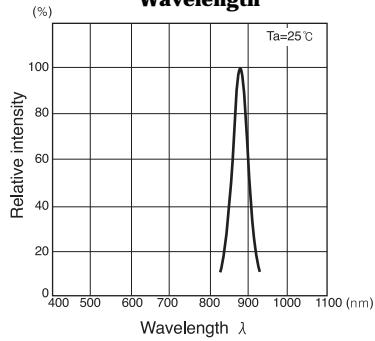
**Radiant intensity Vs.
Forward current**



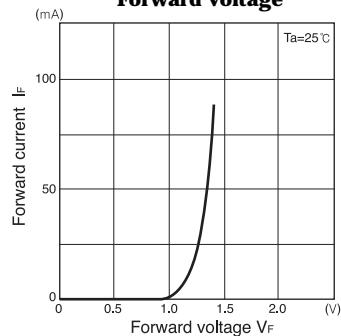
**Relative radiant intensity Vs.
Ambient temperature**



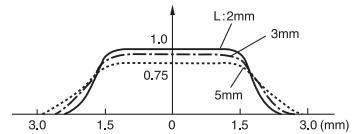
**Relative intensity Vs.
Wavelength**



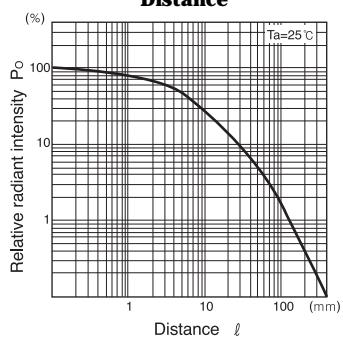
**Forward current Vs.
Forward voltage**



RADIATION PATTERN



**Relative radiant intensity Vs.
Distance**



Relative radiant intensity Vs.
Distance test method

$I_f = 50\text{mA}$ l — detector SP-1ML

Radiation pattern test method

