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Infrared Emitting Diodes(GaAlAs)

KODENSHI

CL - 205

The CL - 205 is a high - power GaAlAs IRED, with precision optical designed lens. It emits parallel infrared lights.

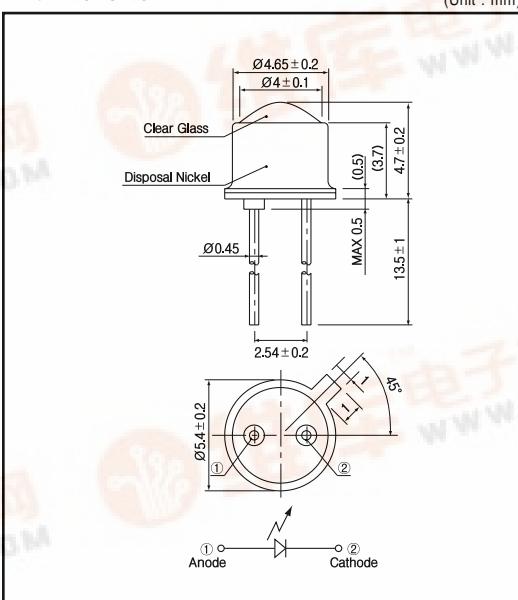
FEATURES

- TO - 18 can type with glass lens
- Peak emission wavelength $\lambda = 880\text{nm}$
- Illuminant for the parallel light
- High reliability

APPLICATIONS

- Encoders

DIMENSIONS



MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	3	V
Forward current	I_F	80	mA
Power dissipation	P_D	160	mW
Pulse forward current ^{*1}	I_{FP}	0.8	A
Operating temp.	Topr.	-30 ~ +100	
Storage temp.	Tstg.	-40 ~ +125	
Soldering temp. ^{*2}	Tsol.	260	

^{*1}. pulse width : tw 100 μsec, period : T=10msec.

^{*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	$I_F=50\text{mA}$		1.5	2.0	V
Reverse current	I_R	$V_R=3\text{V}$			10	μA
Peak emission wavelength	λ	$I_F=50\text{mA}$		870		nm
Spectral bandwidth		$I_F=50\text{mA}$		50		nm
Radiant Intensity ^{*3}	P_o	$I_F=50\text{mA}$		10		mW
Half angle					±9	deg.

^{*3}. Measured by tester of KODENSHI CORP.

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