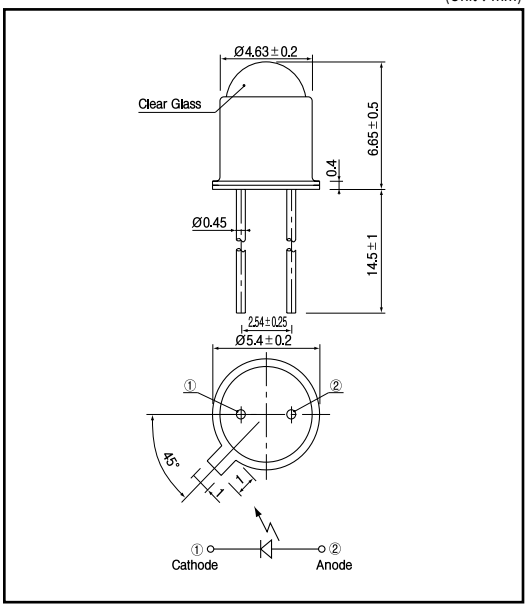
CL - 211

The CL - 211 is a high - power GaAlAs IRED mounted in a durable, hermetically sealed TO - 18 metal can package. The output power is high compared to GaAs IREDs.

DIMENSIONS (Unit : mm)



FEATURES
- High output power
- High reliability

APPLICATIONS
- Optical switches
- Transportation sensors

MAXIMUM RATINGS (Ta=25℃)

Item	Symbol	Rating	Unit
Reverse voltage	V_R	4	V
Forward current	I_F	50	mA
Power dissipation	P_D	70	mW
Pulse forward current *1	I_{FP}	0.5	A
Operating temp.	Topr.	−30 +85	℃
Storage temp.	Tstg.	−40 +100	℃
Soldering temp. *2	Tsol.	260	℃

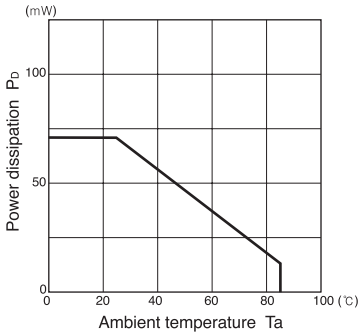
*1. pulse width : tw ≦100 μsec.period : T=10msec.
*2. For MAX.5 seconds at the position of 2 mm from the package

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25℃)

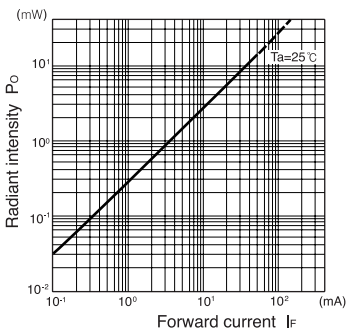
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Forward voltage	V_F	I_F=20mA		1.3	1.6	V
Reverse current	I_R	V_R=4V			10	μA
Peak emission wavelength	λp	I_F=20mA		870		nm
Spectral bandwidth	Δλ	I_F=20mA		45		nm
Radiant intensity	P_O	I_F=20mA		90		mV
Half angle	Δθ			±12		deg.

CL - 211

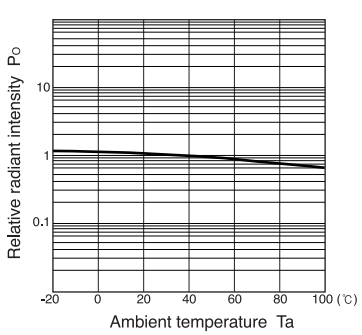
Power dissipation Vs. Ambient temperature



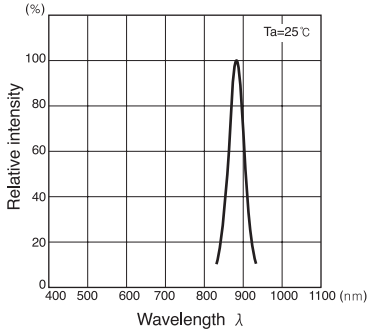
Radiant intensity Vs. Forward current



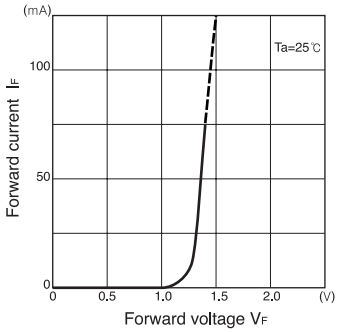
Relative radiant intensity Vs. Ambient temperature



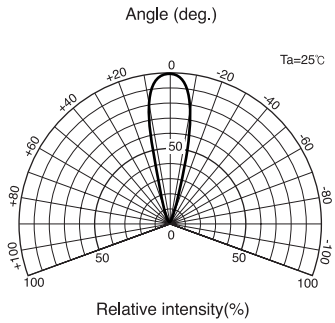
Relative intensity Vs. Wavelength



Forward current Vs. Forward voltage



Radiant Pattern



Relative radiant intensity Vs. Distance