Ciel Light

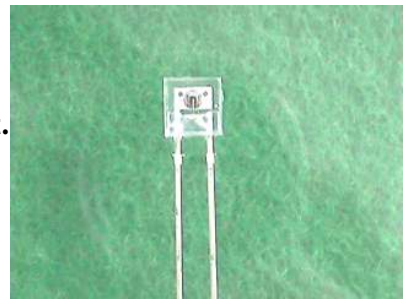
RoHS

Infrared Emitting Diode (GaAs)

CLE-23G

Description

The CLE-23G is a high power GaAs IRED mounted in a clear side-looking package, is compact low profile, and easy to mount.



Features

- Compact
- Low profile package
- Low-cost plastic package

Applications

- Optical sensor
- Photo-interrupters
- Mouse, Toys

MAXIMUM RATINGS

(Ta=25°C)

Item	Symbol	Rating	Unit
Reverse Voltage	V_R	5	V
Forword current	I_F	60	mA
Pulse forword current *1	I_{FP}	1	A
Power dissipation	P_O	100	mW
Operrating temp.	Topr	-20~+100	°C
Storage temp.	Tstg	-30~+100	°C
Soldering temp. *2	Tsol	260	°C

*1. pulse wisth ;tw ≤100sec period : T=10msec

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

ELECTRO-OPTICAL CHARACTERISTICS

Item	Symbol	Conditions	Min	Typ	Max	Unit
Forword Voltage	V_F	I_F=50mA		1.3	1.6	V
Reverse current	I_R	V_R=5V			10	μA
Capacitance	Ct	f=1MHz		25		pF
Radiant intensity	Po	I_F=50mA		2.0		mW/sr
Peak emission wavelength	λp	I_F=50mA		940		nm
Spectral bandwith 50%	Δλ	I_F=50mA		50		nm
Half angle	Θ			±30		deg

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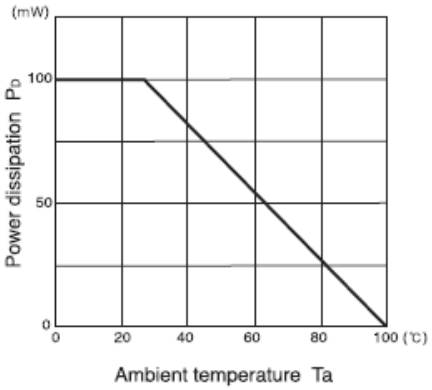
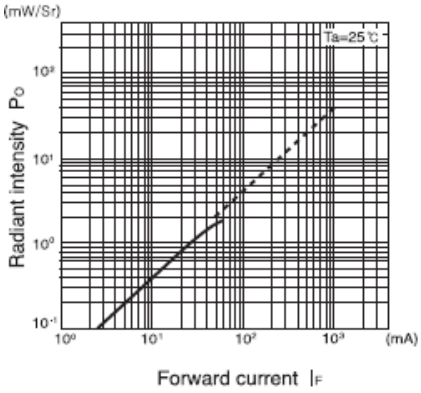
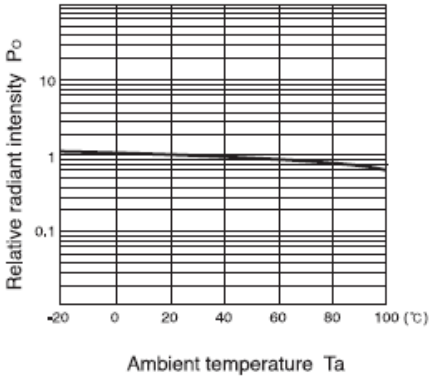
Power dissipation Vs. Ambient temperature



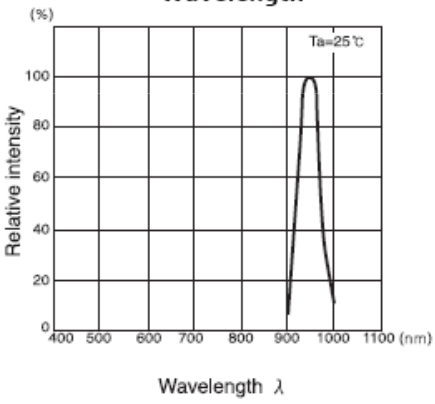
Radiant intensity Vs. Forward current



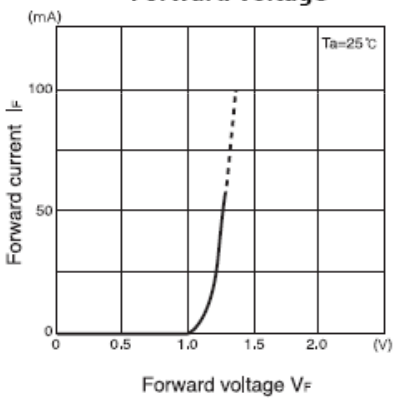
Relative radiant intensity Vs. Ambient temperature



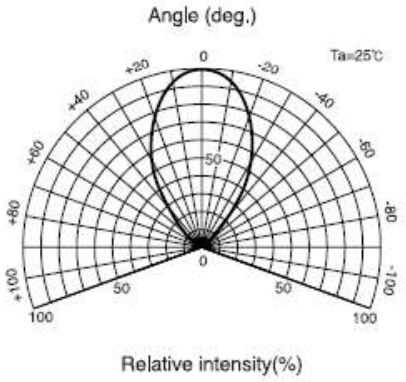
Relative intensity Vs. Wavelength



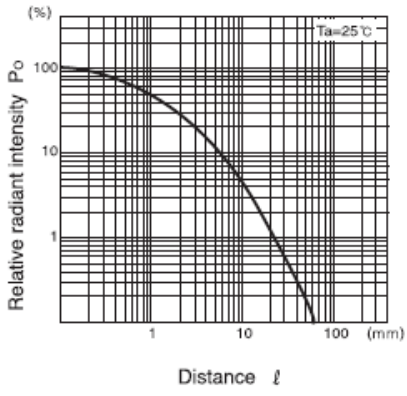
Forward current vs. Forward voltage

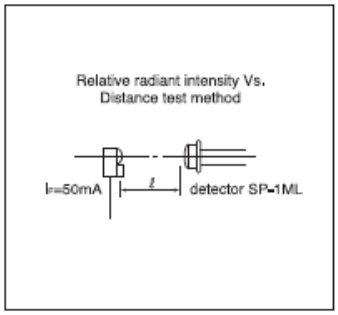


Radiant Pattern



Relative radiant intensity Vs. Distance





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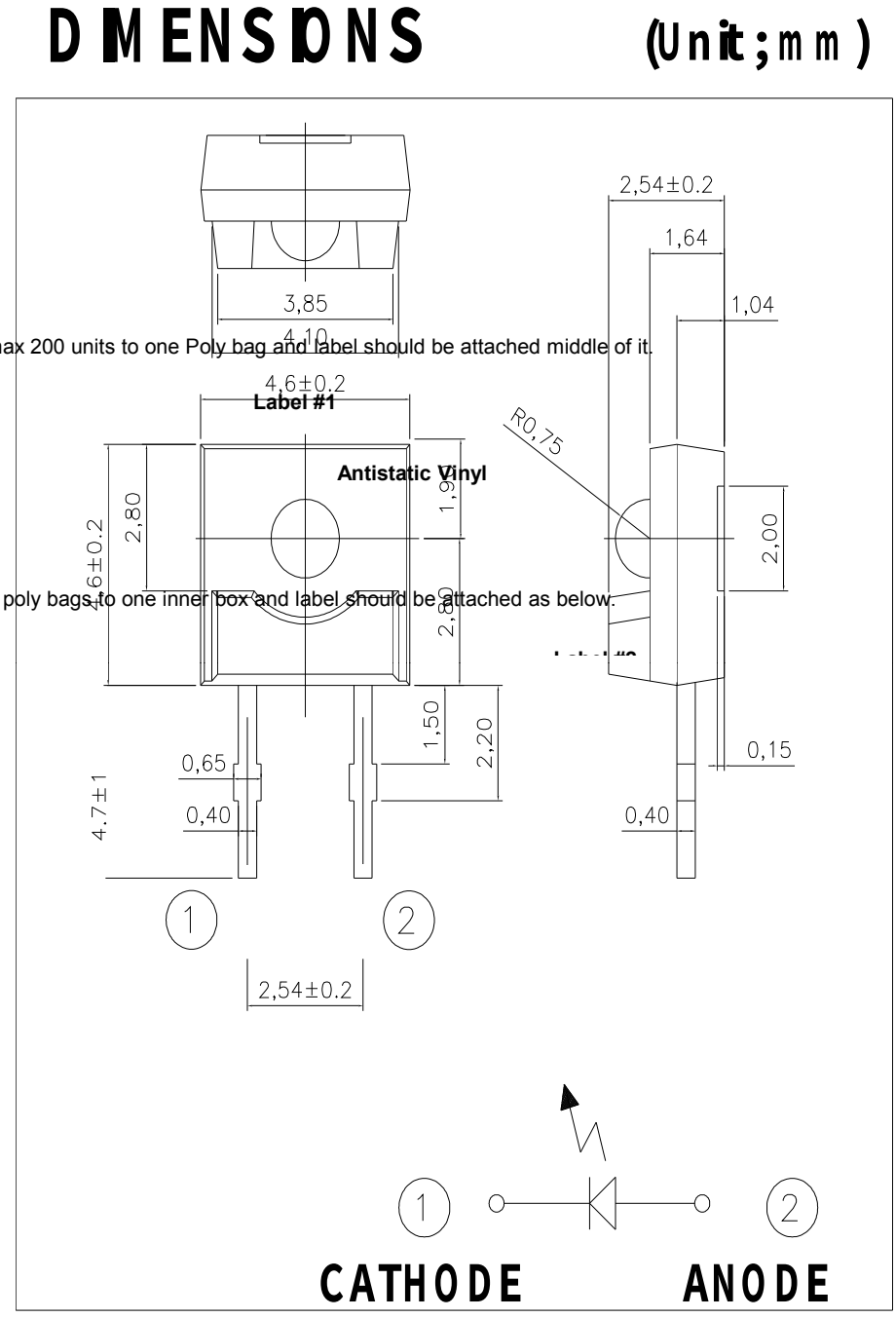
Outline Dimensions (Unit : mm)



1) Input max 200 units to one Poly bag and label should be attached middle of it.

2) Input 6 poly bags to one inner box and label should be attached as below.

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Packing Unit

(Unit : mm)

Packing Method	Units / Tube	Poly Bag / Inner Box	Max Devices / Inner Box	Max Inner Box / Outer Box	Partial Shipment of Outer Box
Poly Bag	500	6	3000	10	2
		* Inner Box # 1	* Inner Box # 1	* Outer Box # 2	* Outer Box # 3

* Inner Box # 1 (170*240*65) * Outer Box # 2 (365*360*270) * Outer Box # 3 (385*750*300)

Packing Method