

CUSTOMER :

SPECIFICATION

CUSTOMER APPROVAL	DESCRIPTION	Infrared Emitting Diode	
	MODEL NO.	OL94KLC	
	DOCUM. NO.	ODT - W010 - 56(O)	
	ISSUED DATE	2003. 10.13	
	CHECK	CONFIRM	APPROVAL

ODTech Co., Ltd.

814, Young am -ri, Bong dong - eup,
Wan ju - gun, chollabuk - do, korea

Tel : +82 - 63 - 263 - 7626

Fax : +82 - 63 - 262 - 7624

E - mail : khkim@od-tech.com

■ Description

The OL94KLC is high-power GaAs LED chip mounted in a durable, hermetically sealed To-18 metal can package. With a peak wavelength of 940nm, this LED is narrow beam angle.

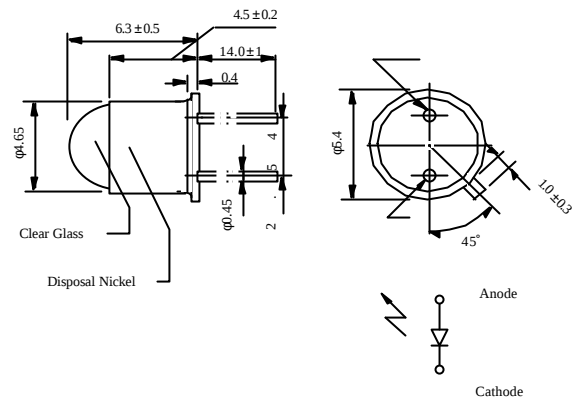
■ Features

- Relatively low cost metal- can package.
- Narrow beam angle
- High power

■ Applications

- optical-switch for factory automation
- Encoders, Optical module

■ Outline Dimensions (Unit : mm)



■ Absolute Maximum Ratings

(Ta= 25)

Parameter	Symbol	Ratings	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	100	mA
Pulse Forward Current (*1)	IFP	1	A
Power Dissipation	PD	190	mW
Operating Temperature	Topr	-25 ~ 100	
Storage Temperature	Tstg	-30 ~ 100	

*1 : Pulse width tw=100us, T=10ms

■ Electro-Optical Characteristics

(Ta=25)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	VF	IF=100mA	-	1.3	1.9	V
Reverse Current	IR	VR=5V	-	-	10	μA
Capacitance	Ct	f=1MHz	-	25	-	pF
Radiant Intensity	Po	IF=50mA	-	3	-	mW/sr
Peak Wavelength	λp	IF=20mA	-	940	-	nm
Spectral Bandwidth 50%	Δλ	IF=20mA	-	45	-	nm
Half Angle	ΔΘ		-	± 13	-	Deg.