

CUSTOMER :
_____**SPECIFICATION**

CUSTOMER APPROVAL	DESCRIPTION	Infrared Emitting Diode	
	MODEL NO.	OL94KLE	
	DOCUM. NO.	ODT-W010-35(O)	
	ISSUED DATE	2004. 5. 13	
	CHECK	CONFIRM	APPROVAL

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Description

The OL94KLE is high-power GaAlAs LED chip mounted in a durable, hermetically sealed To-18 metal can package. With a peak wavelength of 940nm, this LED is wide beam angle.

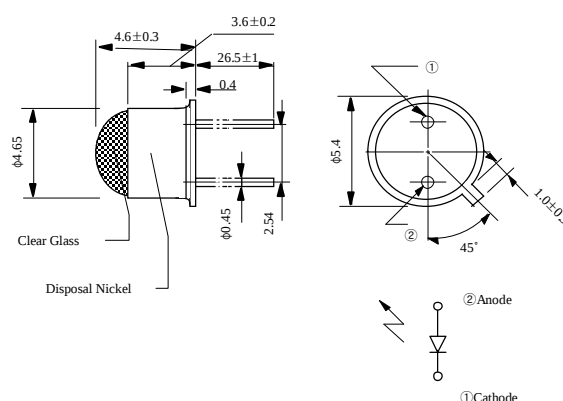
Features

- Relatively low cost metal-can package.
- Wide beam angle
- High power & High reliability

Applications

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

Outline Dimensions (Unit : mm)



Absolute Maximum Ratings

(Ta = 25°C)

Parameter	Symbol	Ratings	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	100	mA
Pulse Forward Current (*1)	I _{FP}	1	A
Power Dissipation	P _D	180	mW
Operating Temperature	T _{opr}	-40 ~ 100	°C
Storage Temperature	T _{stg}	-50 ~ 125	°C

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

Electro-Optical Characteristics

(Ta=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =100mA	-	1.4	1.8	V
Reverse Current	I _R	V _R =5V	-	-	10	μA
Capacitance	C _t	f=1MHz	-	25	-	pF
Radiant Intensity	P _o	I _F =50mA	-	6	-	mW/sr
Peak Wavelength	λ _p	I _F =20mA	-	940	-	nm
Spectral Bandwidth 50%	Δλ	I _F =20mA	-	45	-	nm
Half Angle	ΔΘ		-	±40	-	Deg.