

TOIR-30a94cXAa

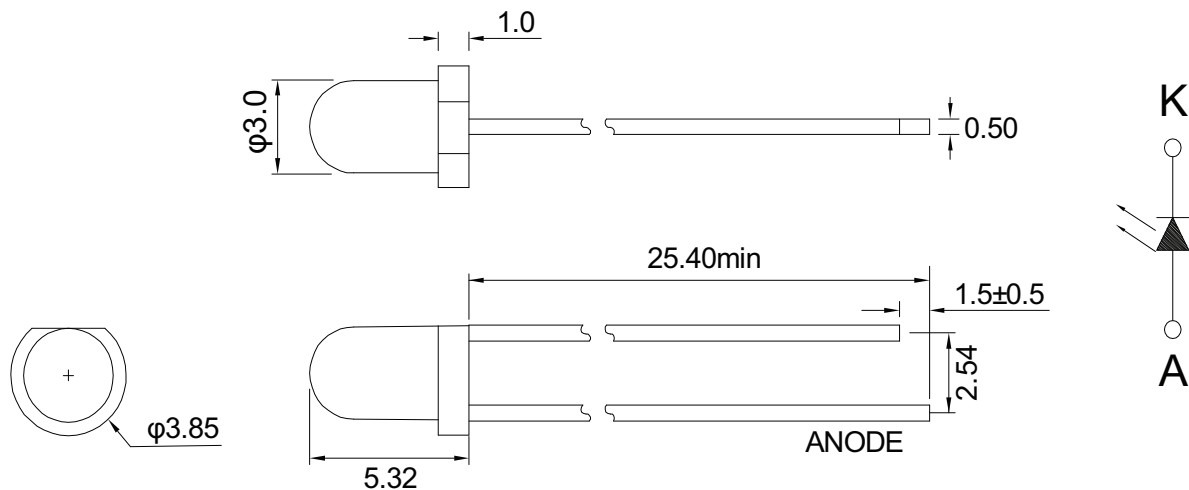
Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOIR-30a94cXAa	AlGaAs	IR	Light Blue Transparent

Features

- I.C. compatible.
- Low power consumption.
- Compatible with wave soldering process.
- 3mm diameter package.
- Long life, stable and reliable.
- RoHS compliant.

Dimensions



Notes:

1. All dimensions are in millimeter.
2. Tolerance is ± 0.25 mm unless otherwise notes.

Absolute Maximum Rating @ Ta=25°C

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Power Dissipation	105	mW
Continuous Forward Current	20	mA
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-40°C to +105°C	
Wave Soldering Profile For Lead-free Soldering	260°C, 5 Seconds	

Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Peak Wavelength	λ_p	/	940	/	nm	$I_F=20\text{mA}$
Viewing Angle	$2\theta_{1/2}$		18		deg	$I_F=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$		45		nm	$I_F=20\text{mA}$
Reverse Current	I_R			10	μA	$V_R=5\text{V}$
Forward Voltage	V_F		1.2	1.5	V	$I_F=20\text{mA}$
			1.4	1.8		$I_F=50\text{mA}$
Radiated Output Power	P_o		8		mW/sr	$I_F=20\text{mA}$
			20			$I_F=50\text{mA}$