

Part Number	Chip		Long Tuno	Iv (IF = 20mA)	
	Material	Emitted Color	Lens Type	Min (mcd)	Typ (mcd)
L120BC-TR	SiC	Blue	Water Clear	5	13



American Opto Plus LED L120BC-TR

- * 3.0 x 2.0 x 1.0mm SMD LED
- ✤ RIGHT ANGLE TYPE
- ✤ 120° VIEWING ANGLE

3.0 x 2.0 x 1.0mm SMD LED, Right Angle Type

✤ LOW CURRENT REQUIREMENT

Absolute maximum ratings $(TA=25\degreeC)$	(SiC)	Unit
Reverse voltage V R Forward current I F Forward current(Peak) I FP 1/10 Duty Cycle,0.1ms Pulse Width Power dissipation P d LED LAMPS: T	5 30 200 135	V mA mA mW
Operating temperatureT OPStorage temperatureT $_{ST}$ LED DISPLAYS:Operating temperatureT $_{A}$ Storage temperatureT $_{STG}$	$-40 \sim +85$ $-40 \sim +85$ $-40 \sim +85$ $-40 \sim +85$	°C °C °C

Operating characteristics			Unit
(TA=25 C)		(SiC)	
Forward voltage(typ.) I F =20mA	V f	3.8	V
Forward voltage(max.) I F =20mA	V f	4.5	V
Reverse current(max.) $V_R = 5V$	IR	10	uA
Wavelength at dominant emission(typ.) I F =20mA	λρ	460	nm
Wavelength at peak emission(typ.) I F =20mA	λр	430	nm
Spectral line half-width I F =20mA	$\Delta \lambda$	25	nm
Capacitance VF =0V ,f=1MHz	С	100	pF

www.DataSheet4U.com







SMT Reflow soldering 260°C one cycle

www.DataSheet4U.com



American Opto Plus LED L120BC-TR

* 3.0 x 2.0 x 1.0mm SMD LED

- *** RIGHT ANGLE TYPE**
- ✤ 120° VIEWING ANGLE

3.0 x 2.0 x 1.0mm SMD LED, Right Angle Type

✤ LOW CURRENT REQUIREMENT

SMD Handling and Application Precautions

STORAGE

- 1. It is recommended to store the devices in accordance with the following conditions:
 - a. Humidity: 60% RH Max
 - b. Temperature: $5^{\circ}C \sim 30^{\circ}C (41^{\circ}F \sim 86^{\circ}F)$
- Shelf life in sealed bag: 12 months at < 5°C ~ 30°C and < 60% RH. After the package is opened, products should be used within 72 hours, or they should be kept at ≤ 30% RH in zip-locked sealed bags.

DRY PACK AND BAKING

SMD LEDs are MOISTURE SENSITIVE devices. Avoid absorbing moisture at any time during transportation and/or storage. It is recommended to bake before soldering when the pack is unsealed after 72 hours, or any suspicious moisture being found. Bake devices in accordance with the following conditions:

- 50 \pm 3°C x (12 ~ 24 hours) and < 5% RH, tape and reel type
- $100 \pm 3^{\circ}$ C x (45 min ~ 1 hour), loose packing type, OR
- $130 \pm 3^{\circ}$ C x (15 min ~ 30 min), loose packing type

ELECTROSTATIC DISCHARGE (ESD) PROTECTION

Materials with GaN, InGaN, AlInGaP are STATIC SENSITIVE devices. They will be packed in anti-static bags. ESD protection must be deliberately observed from the initial design stage. Electrostatic discharge may result in severe malfunction of devices. In the event of manual working in process, make sure the devices are well-protected from ESD at any time. Surge before and during handling of products.