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## SPECIFICATION

*PART NO. : LB3531-11 NWAK*

*0.35" (8.9mm) LIGHT BAR*

Approved by	Checked by	Prepared by
<i>San</i>	<i>Dodo</i>	<i>Cure</i>



**0.35"(8.9mm) LIGHT BAR**  
**PART NO. : LB3531-11 NWAK**

**Features**

- \* **0.35-INCH(8.9mm) LIGHT BAR.**
- \* **LOW CURRENT REQUIREMENTS.**
- \* **WIDE VIEWING ANGLE.**
- \* **SOLID STATE RELIABILITY**
- \* **I.C. COMPATIBLE.**
- \* **CATEGORIZED FOR LUMINOUS INTENSITY.**

**Description**

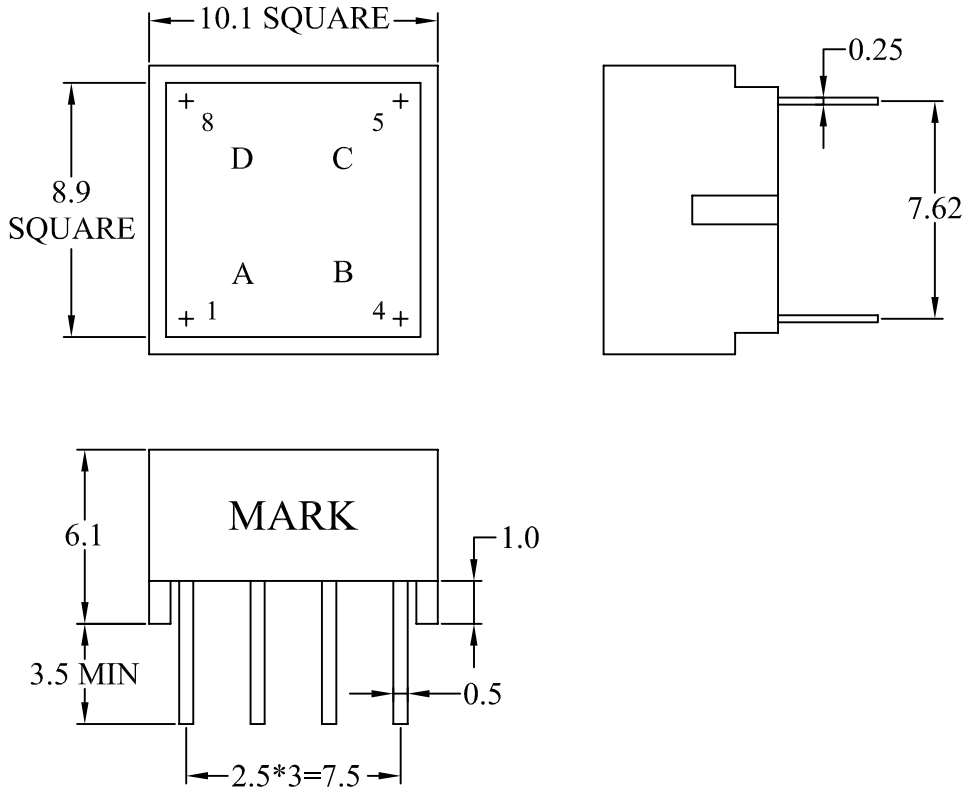
The LB3531-11 NWAK is a 0.35-inch (8.9mm) square light bar.  
The Yellow LED chips , which are made from GaAsP on a transparent GaP substrate.  
The device has a white face and white segments.

Part No.	LED Chip		Description
	Material	Emitting Color	
LB3531-11 NWAK	GaAsP/GaP	YELLOW	LIGHT BAR



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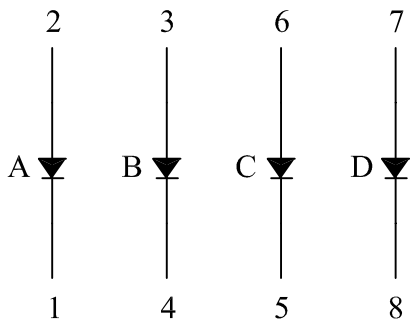
**Package Dimensions**



1. ALL DIMENSIONS ARE IN mm , TOLERANCE IS  $\pm 0.25\text{mm}$  UNLESS OTHERWISE NOTED.
2. THE SLOPE ANGLE OF ANY PIN MAY BE  $\pm 5.0^\circ$  MAX.

**Internal Circuit Diagram**

LB3531-11 NWAK



**Pin Function**

LB3531-11 NWAK	
Pin No.	Function
1	CATHODE A
2	ANODE A
3	ANODE B
4	CATHODE B
5	CATHODE C
6	ANODE C
7	ANODE D
8	CATHODE D



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**Absolute Maximum Ratings at Ta=25°C**

Parameter	Symbol	Rating	Unit
Reverse Voltage Per LED Chip	Vr	5	V
D.C. Forward Current Per LED Chip	If	30	mA
Pulse Current Per LED Chip (1/10 Duty Cycle , 0.1 ms Pulse Width)	If(Peak)	100	mA
Operating Temperature Range	Topr	-25 to +85	°C
Storage Temperature Range	Tstg	-40 to +100	°C
Lead Soldering Temp.(1.6mm from seating plane) for 3 seconds		260	°C

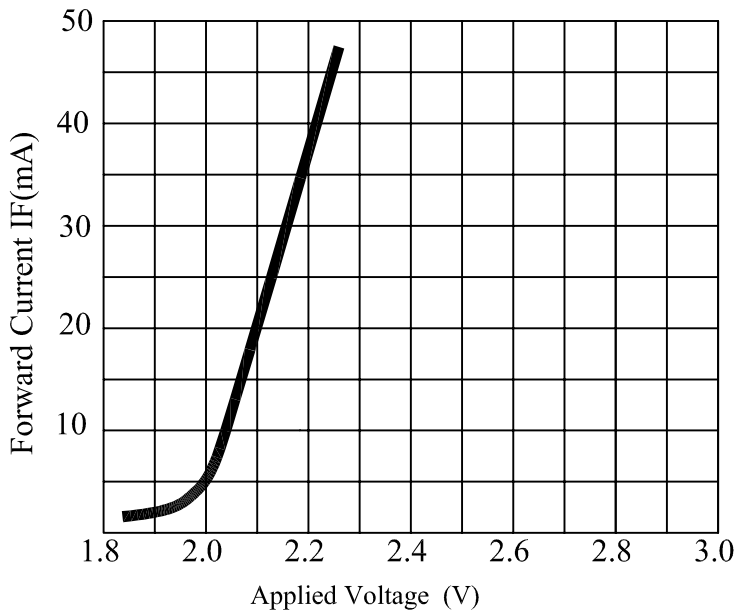
**Electrical and Optical Characteristics :**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=10mA	1.7	2.3		mcd
Forward Voltage Per Segment	Vf	If=20mA		2.1	2.6	V
Peak Wavelength	$\lambda P$	If=20mA		585		nm
	$\lambda D$			590		
Reverse Current Per Segment	Ir	Vr=5V			100	$\mu A$
Spectrum Line Halfwidth	$\Delta\lambda$	If=20mA		35		nm

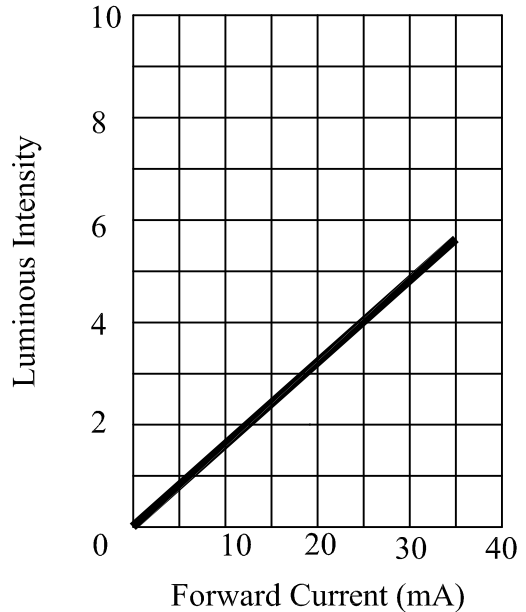


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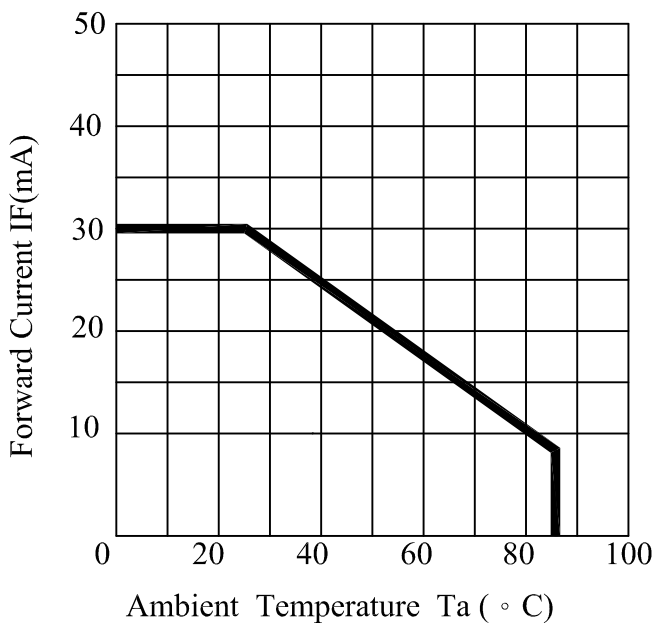
Typical Electrical/Optical Characteristic Curves  
(25°C Ambient Temperature Unless Otherwise Noted)



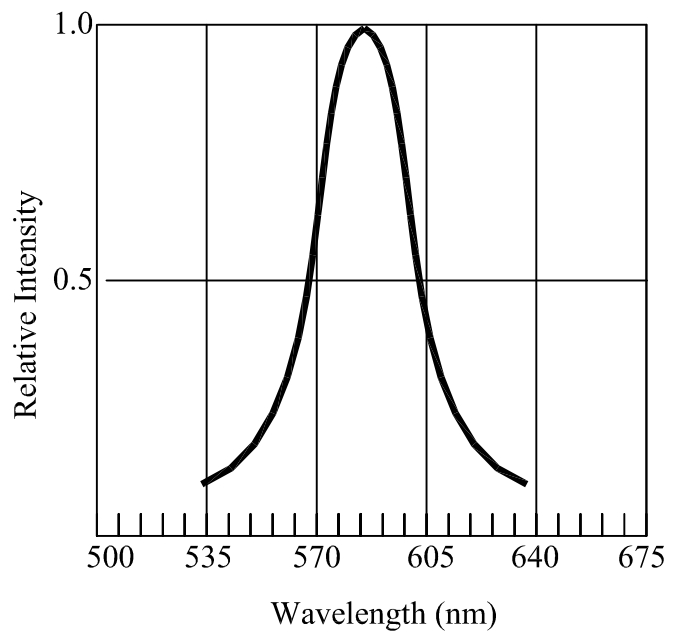
**FORWARD CURRENT VS. APPLIED VOLTAGE**



**LUMINOUS INTENSITY VS. FORWARD CURRENT**



**FORWARD CURRENT VS. AMBIENT TEMPERATURE**



**RELATIVE INTENSITY VS. WAVELENGTH**