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LEDTECH ELECTRONICS CORP.

## SPECIFICATION

*PART NO. : LT8921E-41*

*2.0×4.0MM RECTANGULAR LED LAMP*

Approved by	Checked by	Prepared by
<i>Jack</i>	<i>Jang</i>	<i>Bao Min</i>



## 2.0×4.0MM RECTANGULAR LED LAMP

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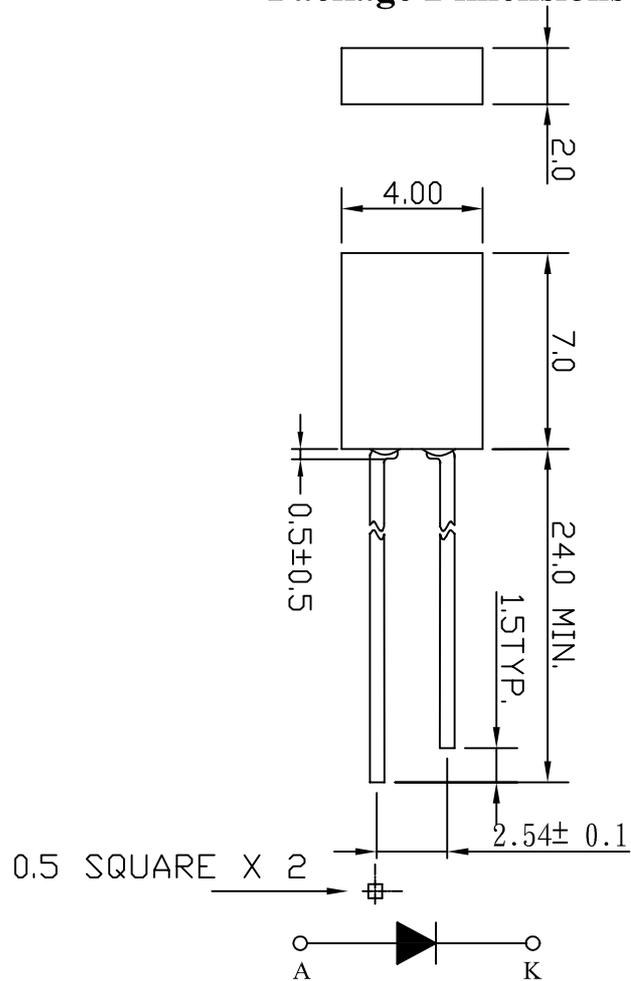
### Features

- \* High intensity
- \* Reliable and rugged
- \* Low current requirement
- \* IC compatible

### Description

The Green lamp are made with GaP/GaP chip and Green diffused epoxy resin.

### Package Dimensions



Notes:

1. All dimensions are in millimeters.
2. Tolerance is  $\pm 0.25$  mm unless otherwise noted.

Part No.	Led Chip		Lens Color
	Material	Emitting Color	
LT8921E-41	GaP/GaP	Green	Green diffused



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### Absolute Maximum Ratings at Ta=25°C :

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	78	mW
Reverse Voltage	Vr	5	V
D.C. Forward Current	If	30	mA
Peak Current (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 body) for 5 seconds		260	°C

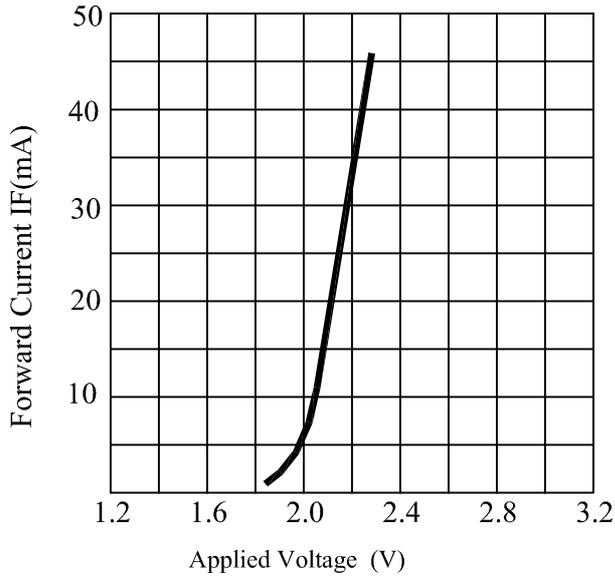
### Electrical and Optical Characteristics :

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=20mA	5.0	9.0		mcd
Forward Voltage	Vf	If=20mA		2.1	2.6	V
Peak Wavelength	$\lambda P$	If=20mA		567		nm
Dominant Wavelength	$\lambda D$	If=20mA		572		nm
Reverse Current	Ir	Vr=5V			100	$\mu A$
Viewing Angle	2 $\theta$ 1/2	If=20mA		120		deg
Spectrum Line Halfwidth	$\Delta \lambda$	If=20mA		30		nm

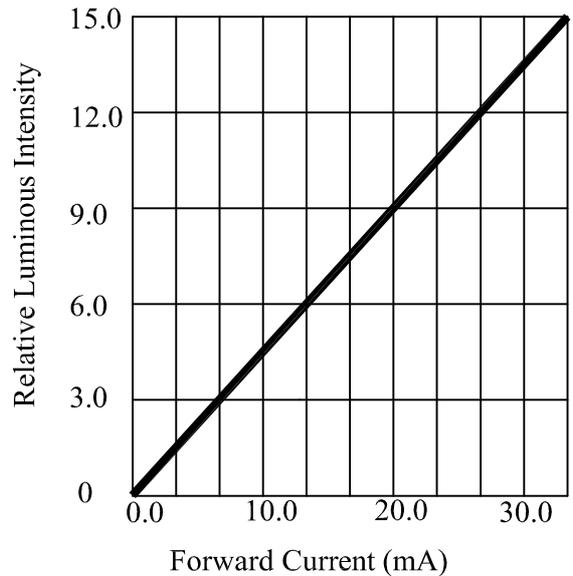


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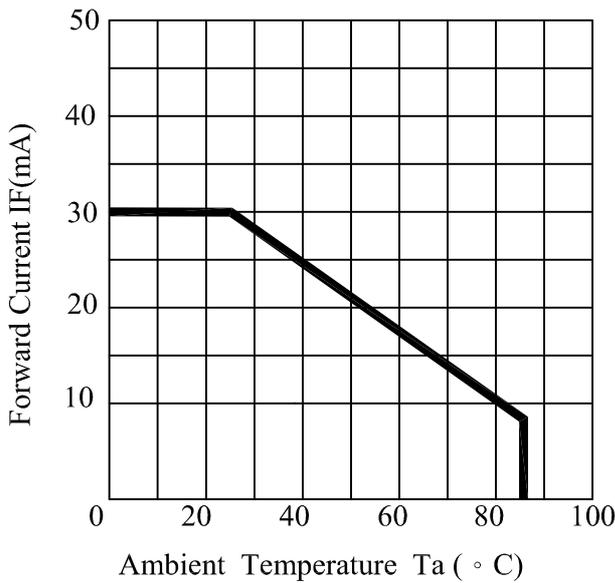
**Typical Electrical / Optical Characteristics Curves :**



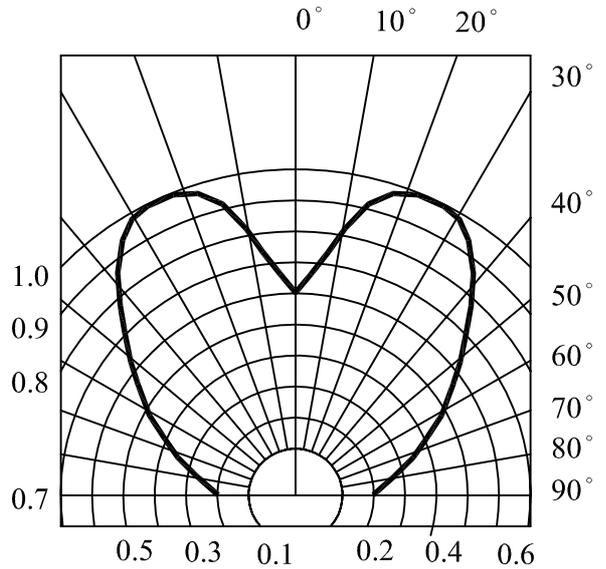
FORWARD CURRENT VS. APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



AMBIENT TEMPERATURE VS. FORWARD CURRENT



RADIATION DIAGRAM



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### Reliability Test Method :

Test Item	Test Condition	Duration Time
Operation Life	If=20mA / Ta=25°C	168hrs
Storage at High Temperature	Ta=100°C	168hrs
Storage at Low Temperature	Ta=-40°C	168hrs
Storage at High Temperature/High Humidity	Ta=85°C /RH=85%	168hrs
Operating at High Temperature	Ta=85°C / If=20mA	168hrs
Operating at Low Temperature	Ta=-25°C / If=20mA	168hrs
Thermal Shock	Ta/T=100°C/30min~ -40°C/30min	10 cycles
Solderability	Tsol=230°C	5 sec

### Criteria for Judging The Damage:

Item	Symbol	Test Condition	Criteria for Judgment	
			Min.	Max.
Forward Voltage	Vf	If=20mA	-----	Initial Data x1.1
Reverse Current	Ir	Vr=5V	-----	100 μA
Luminous Intensity	Iv	If=20mA	Initial Data x0.8	-----

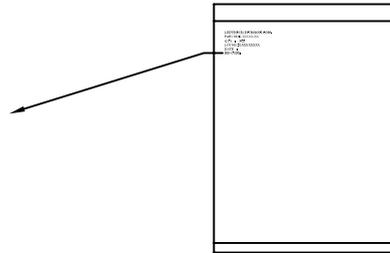


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ENCASED TYPE

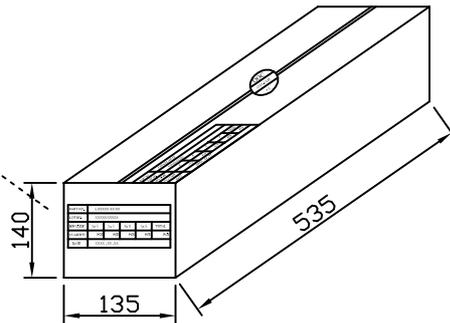
PLASTIC PACKAGE  
 QUANTITY: 1,000 PCS

LEDTECH ELECTRONICS CORP.	
PART NO :LTXXXX-XX	
Q'TY	: PCS
LOT NO	:XXXXXXXXXX
DATE	:
BIN CODE:	



INNER BOX  
 QUANTITY: 10 PACKETS  
 TOTAL: 10,000 PCS

PART NO.	LXXXXX-XX-XX				
LOT NO.	XXXXXXXXXXXX				
BIN CODE	Xx X	Xx X	Xx X	Xx X	TOTAL
QUANTITY	PCS	PCS	PCS	PCS	PCS
DATE	XXXX, XX, XX				



OUTER CARTON  
 QUANTITY: 4 BOX  
 TOTAL: 40,000 PCS

C/T NO. 箱號	XX
PART NO. 料號	LXXXXX-XX-XX
QUANTITY 數量	PCS
N.W. 淨重	KGS
G.W. 毛重	KGS
REMARK 備註	

