



LEDTECH ELECTRONICS CORP.

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## SPECIFICATION

*PART NO. : LT4S41RE-41*

*1.9 x 3.1MM RECTANGULAR LED LAMP*

Approved by	Checked by	Prepared by
<i>San</i>	<i>Spring</i>	<i>Bao Min</i>



# 1.9 x 3.1MM RECTANGULAR LED LAMP

PART NO. : LT4S41RE-41

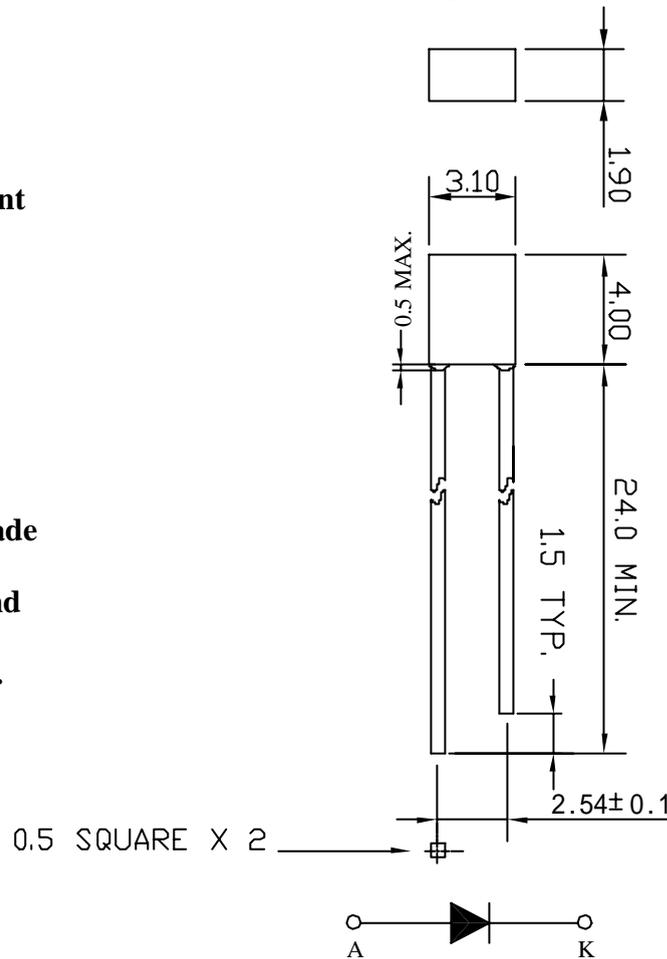
## Features

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

## Description

The Orange lamp are made with GaAsP/GaP chip and Red 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	
LT4S41RE-41	GaAsP/GaP	Orange	Red diffused



## 1.9 x 3.1MM RECTANGULAR LED LAMP

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### Absolute Maximum Ratings at Ta=25 :

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	
Storage Temperature Range	Tstg	-40 to +100	
Lead Soldering Temp.(1.6mm from body) for 5 seconds		260	

### Electrical and Optical Characteristics :

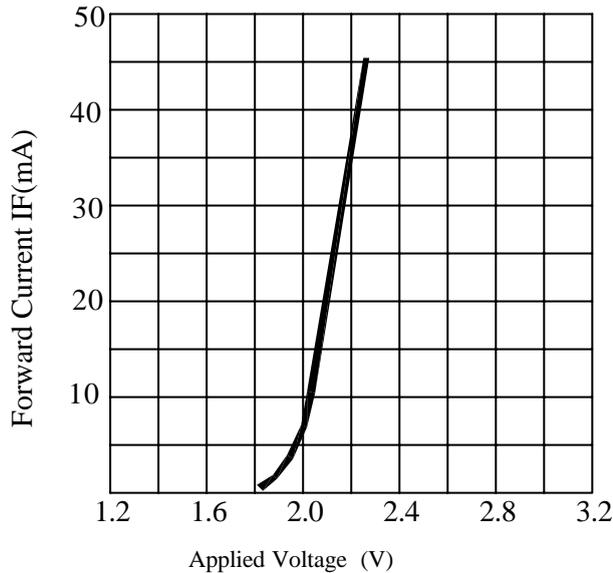
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=2mA	9.0	16.0		mcd
Forward Voltage	Vf	If=20mA		2.1	2.6	V
Peak Wavelength	P	If=20mA		635		nm
Dominant Wavelength	D	If=20mA		626		nm
Reverse Current	Ir	Vr=5V			100	μ A
Viewing Angle	2 1/2	If=20mA		110		deg
Spectrum Line Halfwidth		If=20mA		35		nm



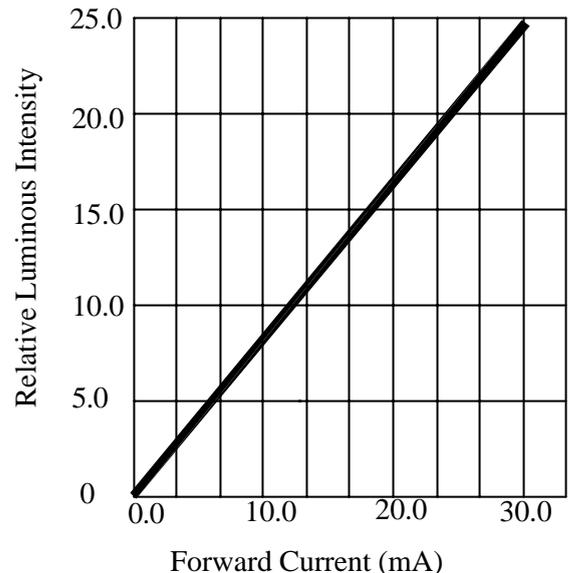
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PART NO. : LT4S41RE-41

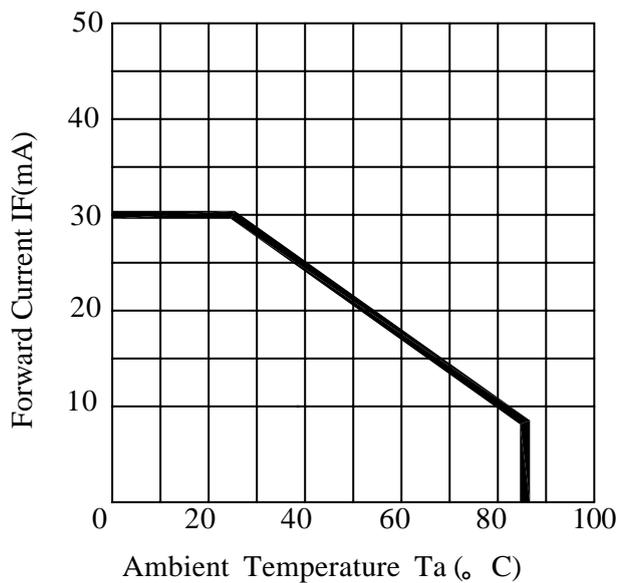
## Typical Electrical / Optical Characteristics Curves :



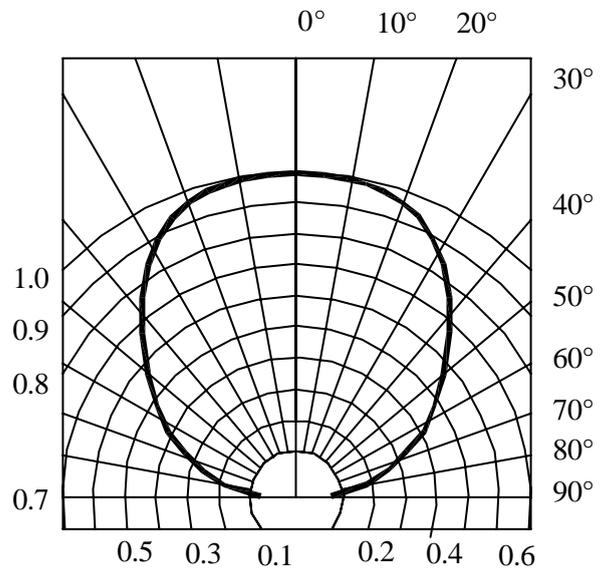
**FORWARD CURRENT VS. APPLIED VOLTAGE**



**FORWARD CURRENT VS. LUMINOUS INTENSITY**



**AMBIENT TEMPERATURE VS. FORWARD CURRENT**



**RADIATION DIAGRAM**



## 1.9 $\times$ 3.1MM RECTANGULAR LED LAMP

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### Reliability Test Method :

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

### Criteria for Judging The Damage:

Item	Symbol	Test Condition	Criteria for Judgment	
			Min.	Max.
Forward Voltage	Vf	If=20mA	-----	Initial Data $\times$ 1.1
Reverse Current	Ir	Vr=5V	-----	100 $\mu$ A
Luminous Intensity	Iv	If=20mA	Initial Data $\times$ 0.8	-----

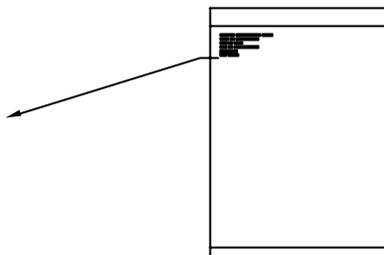


**1.9 x 3.1MM RECTANGULAR LED LAMP  
PART NO. : LT4S41RE-41**

ENCASED TYPE

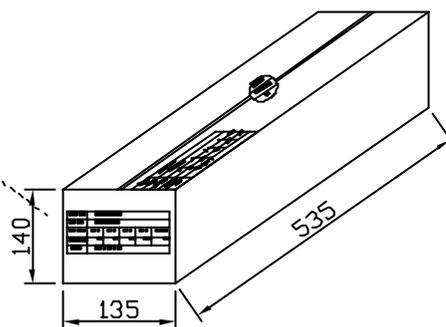
PLASTIC PACKAGE  
QUANTITY: 1,000 PCS

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



INNER BOX  
QUANTITY: 20 PACKETS  
TOTAL: 20,000 PCS

PART NO.	LXXXXX-XX-XX				
LOT NO.	XXXXXXXXXX				
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: 80,000 PCS

CT 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	

