



LEDTECH ELECTRONICS CORP.

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SPECIFICATION

PART NO. : LT7231E-81

2.3 \times 7.1MM RECTANGULAR LED LAMP

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



2.3 ∇ 7.1MM RECTANGULAR LED LAMP

PART NO. : LT7231E-81

Page : 1/5

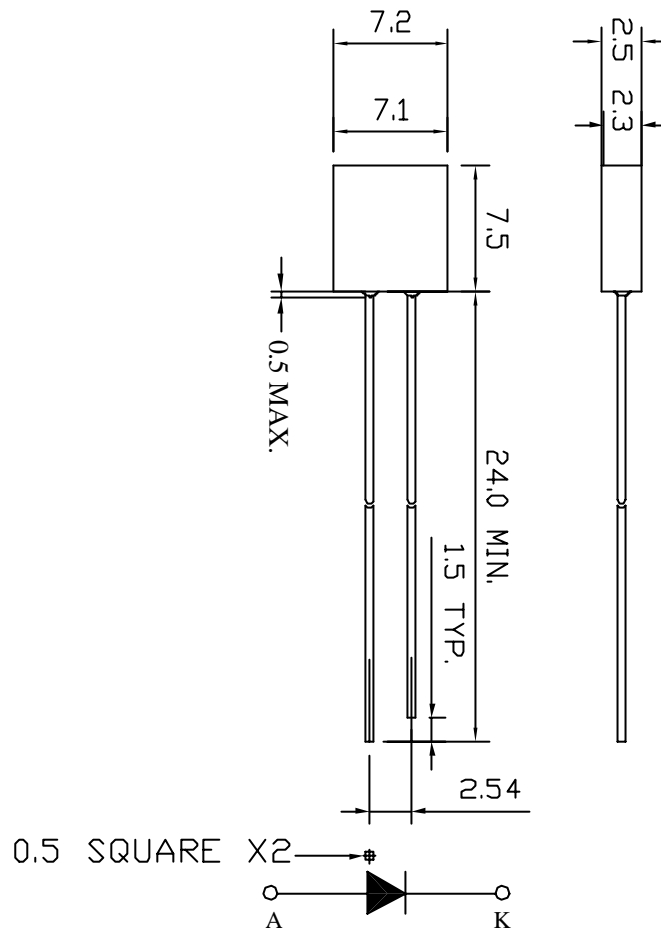
Features

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

Description

The Yellow lamp are made with GaAsP/GaP chip and yellow diffused epoxy resin.

Package Dimensions



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.25 mm unless otherwise noted.

Part No.	Led Chip		Lens Color
	Material	Emitting Color	
LT7231E-81	GaAsP/GaP	Yellow	Yellow diffused



2.3 \varnothing 7.1MM RECTANGULAR LED LAMP

PART NO. : LT7231E-81

Page : 2/5

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=20mA	4.0	7.0		mcd
Forward Voltage	Vf	If=20mA		2.1	2.6	V
Peak Wavelength	P	If=20mA		585		nm
Dominant Wavelength	D	If=20mA		590		nm
Reverse Current	Ir	Vr=5V			100	μ A
Viewing Angle	2 1/2	If=20mA		80		deg
Spectrum Line Halfwidth		If=20mA		35		nm

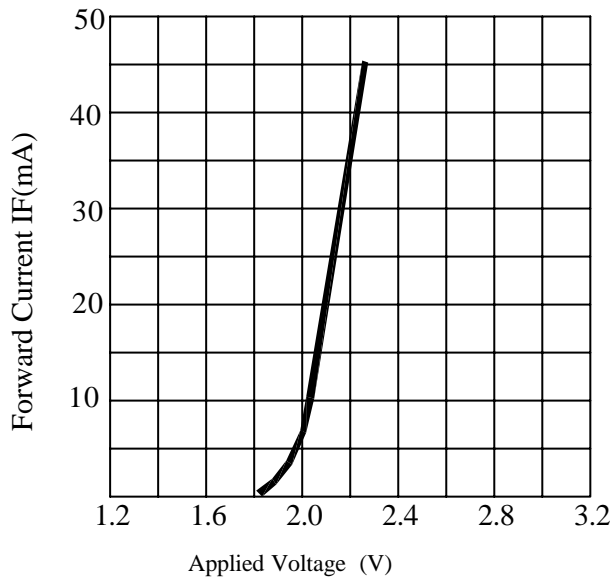


2.3 \varnothing 1MM RECTANGULAR LED LAMP

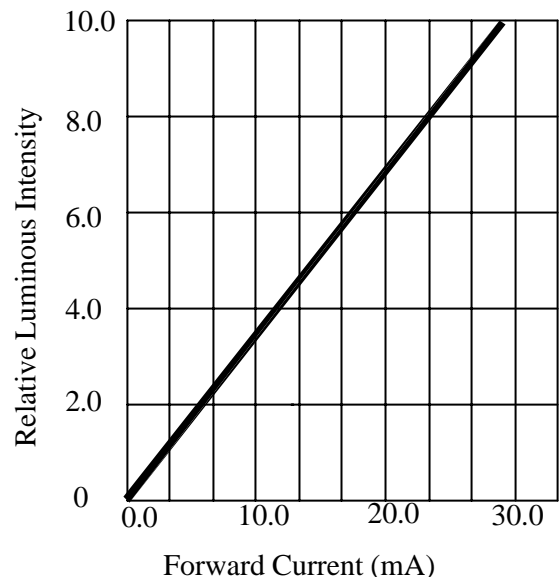
PART NO. : LT7231E-81

Page : 3/5

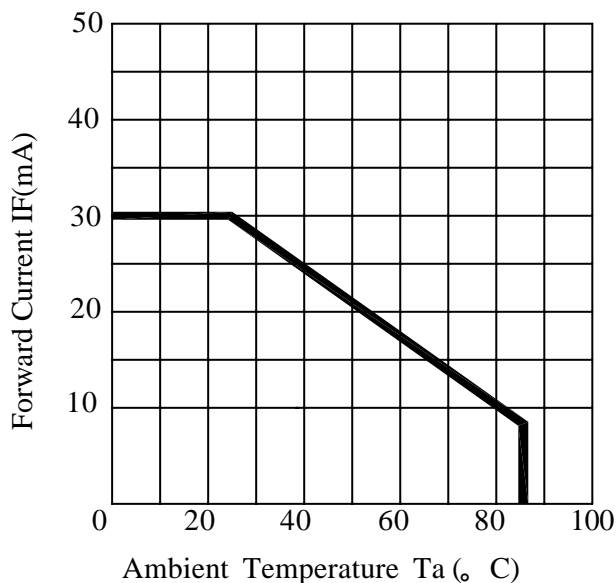
Typical Electrical / Optical Characteristics Curves :



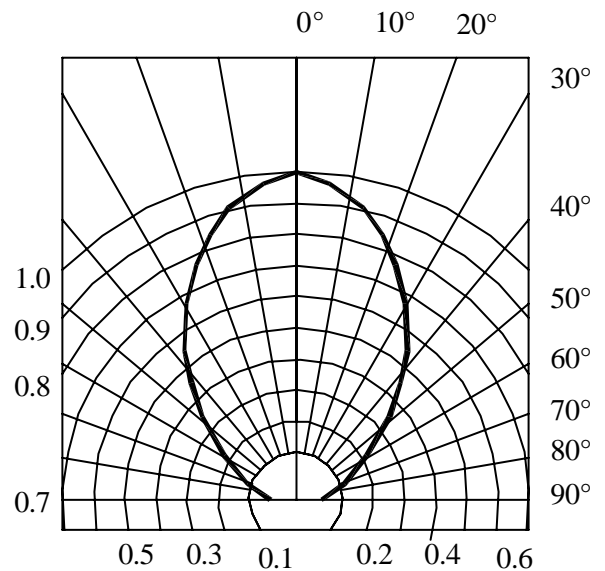
FORWARD CURRENT VS. APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



AMBIENT TEMPERATURE VS. FORWARD CURRENT



RADIATION DIAGRAM



2.3 \varnothing 7.1MM RECTANGULAR LED LAMP

PART NO. : LT7231E-81

Page : 4/5

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 μ A
Luminous Intensity	Iv	If=20mA	Initial Data $\times 0.8$	-----



2.3 7.1MM RECTANGULAR LED LAMP

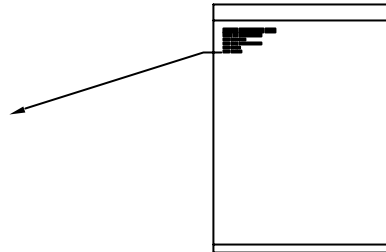
PART NO. : LT7231E-81

Page : 5/5

ENCASED TYPE

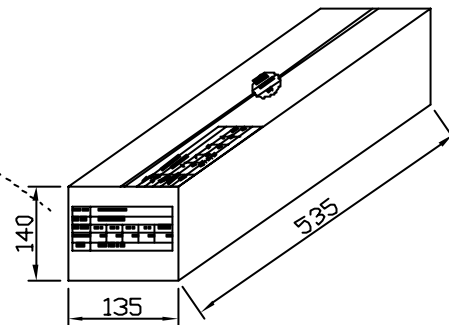
PLASTIC PACKAGE
QUANTITY: 1,000 PCS

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



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

