



深圳市国冶星光电子有限公司

SHENZHEN GUOYEXING OPTOELECTRONICS CO.,LTD.

承 认 书

SPECIFICATION FOR APPROVAL

客户名称Customer: LG

产品型号Model: GYXS-2511CG

企业号No.: GYX-G-003

客户号Customer No: DDCG0004

日期Date: 2007-08-29

附产品规格书Enclosure is the specification

深圳市国冶星光电子有限公司

SHENZHEN GUOYEXING OPTOELECTRONICS CO.,LTD.

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客户确认签名

APPROVED SIGNATURES

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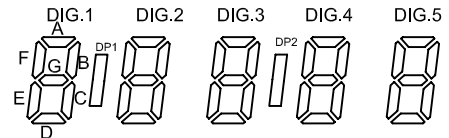
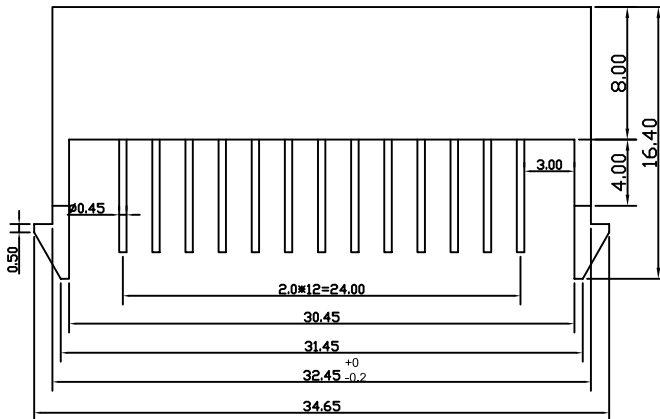
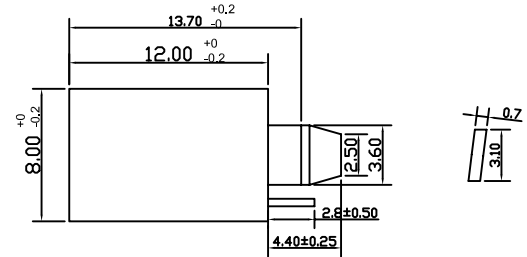
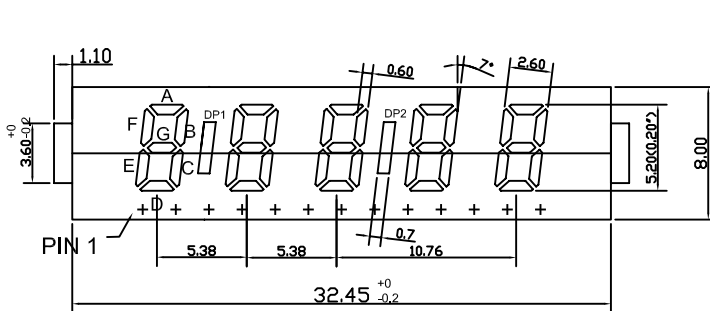
Email:gyx@gyx-led.com

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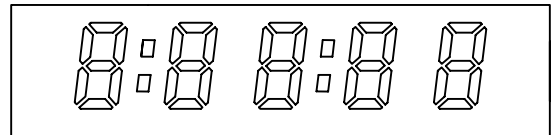


GYXS-2511CG

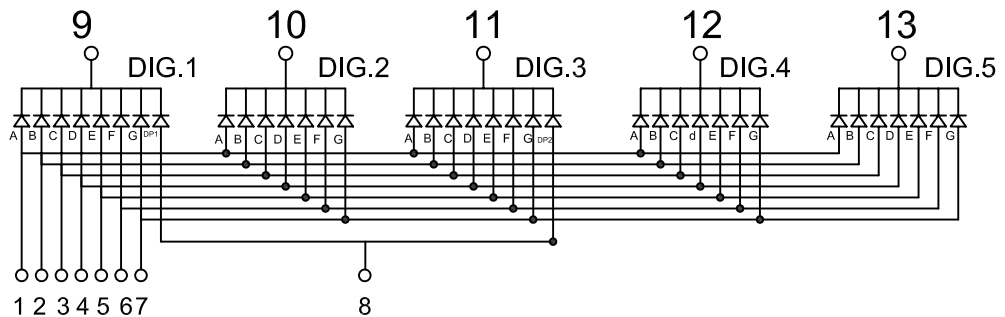
PACKAGE DIMENSIONS



屏贴显示图



INTERNAL CIRCUIT DIAGRAM



Notes:

- 1.All dimensions are in millimeters(inch),Tolerance is $\pm 0.25\text{mm}(0.01\text{'})$ unless otherwise noted.
- 2.The specification may be changed without notice.



General Information

Part NO.	Chip Material	Emitting Color	Lens Type	Description
GYXS-2511CG	GaAlAs/GaAs	Green	Diffused	Common Cathode

Electrical/Optical Characteristics at Ta=25°C

Parameter	Symbol	Typ.	Max.	Unit	Conditions
Luminous Intensity	I _v	13.5	—	mcd	I _F =20mA
Peak Wavelength	λ _P	—	—	nm	I _F =20mA
Dominant Wavelength	λ _D	572	573	nm	I _F =20mA
Spectral Line Half-Width	Δλ	—	45	nm	I _F =20mA
Forward Voltage	V _F	2.20	2.50	V	I _F =20mA
Reverse Current	I _R	—	10	uA	V _R =5V

Absolute Maximum Ratings at Ta=25°C

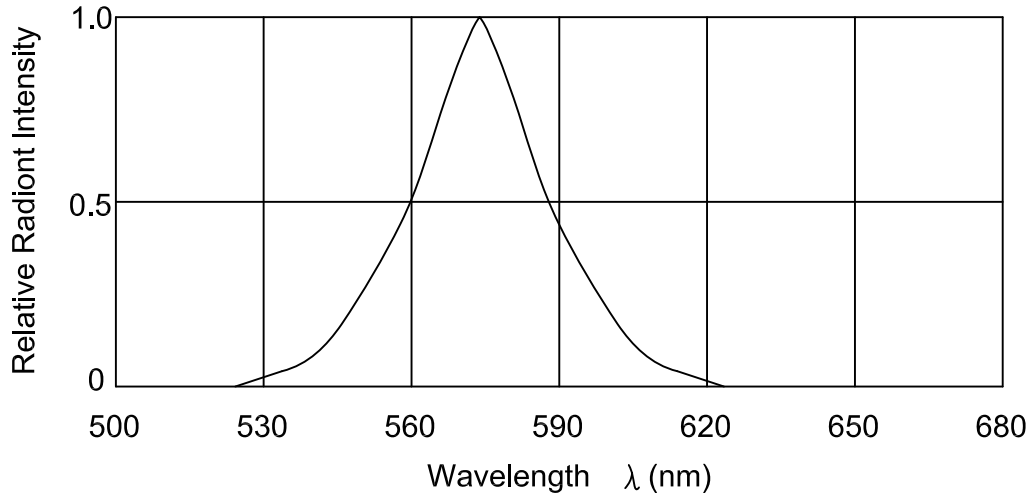
Parameter	Symbol	Maximum Rating	Unit
Power Dissipation	P _d	75	mW
Forward Current	I _F	20	mA
Peak Forward Current(1)	I _F (Peak)	120	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{opr}	-35° c+85° c	
Storage Temperature	T _{stg}	-35° c+85° c	
Lead Solder Temperature(2)	T _{sol}	260° c for 10 seconds	

Notes:

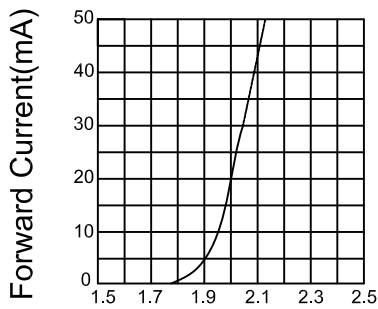
- 1/10 duty cycle, 0.1ms pulse width.
- 2mm below package base.



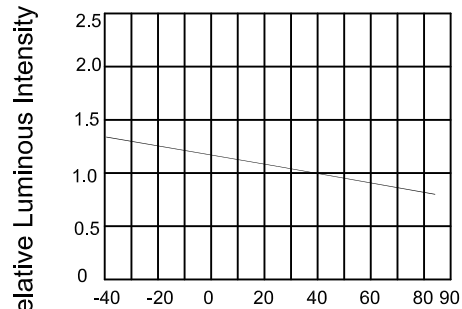
25° Ambient Temperature Unless Otherwise Noted



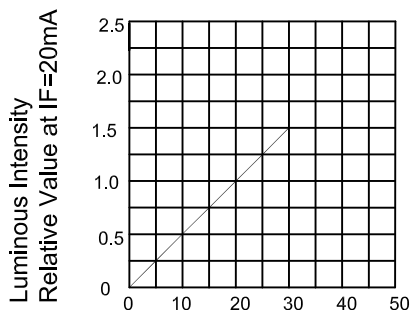
RELATIVE INTENSITY Vs.WAVELENGTH



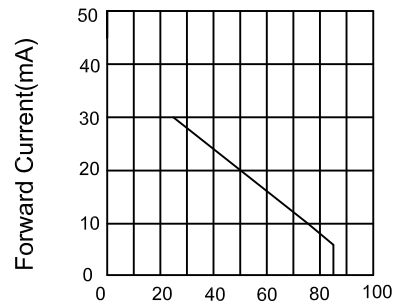
FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



DISPLAY SPECIFICATION RELIABILITY TEST

GYXS-2511CG

Reliability test items and conditions

NO.	Test item	Test conditions	Test time	Number	Ac/Re	Result
1	DC Operating Life	IF=30mA	1000HRS	20	0/1	0/20
2	High Temperature/High Humidity	Ta=85° C±5° C RH=85%-95%	1000HRS	20	0/1	0/20
3	Temperature Cycle	-30° C~25° C~85° C~25° C 30min~5min~30min~5min	100cycle	20	0/1	0/20
4	Thermal Shock	100° C~-40° C 10min~10min	100 cycle	20	0/1	0/20
5	High Temperature storage	Ta=100° C±10° C	1000HRS	20	0/1	0/20
6	Low Temperature storage	Ta= -35° C±5° C	1000HRS	20	0/1	0/20
7	Solder Heat	Ta=260° C±5° C RH=55±20%	10±1 second	20	0/1	0/20

Measuring item	Symbol	Measuring conditions	Judgement criteria for failure
Forward voltage	VF	IF=20mA	OVER V*120% OR 80%
Reverse current	IR	VR=5V	Over H*2
Luminous intensity	IV	IF=20mA	L*0.5
Dominant wavelength	λD	nm	Over ±1.5nm(W)

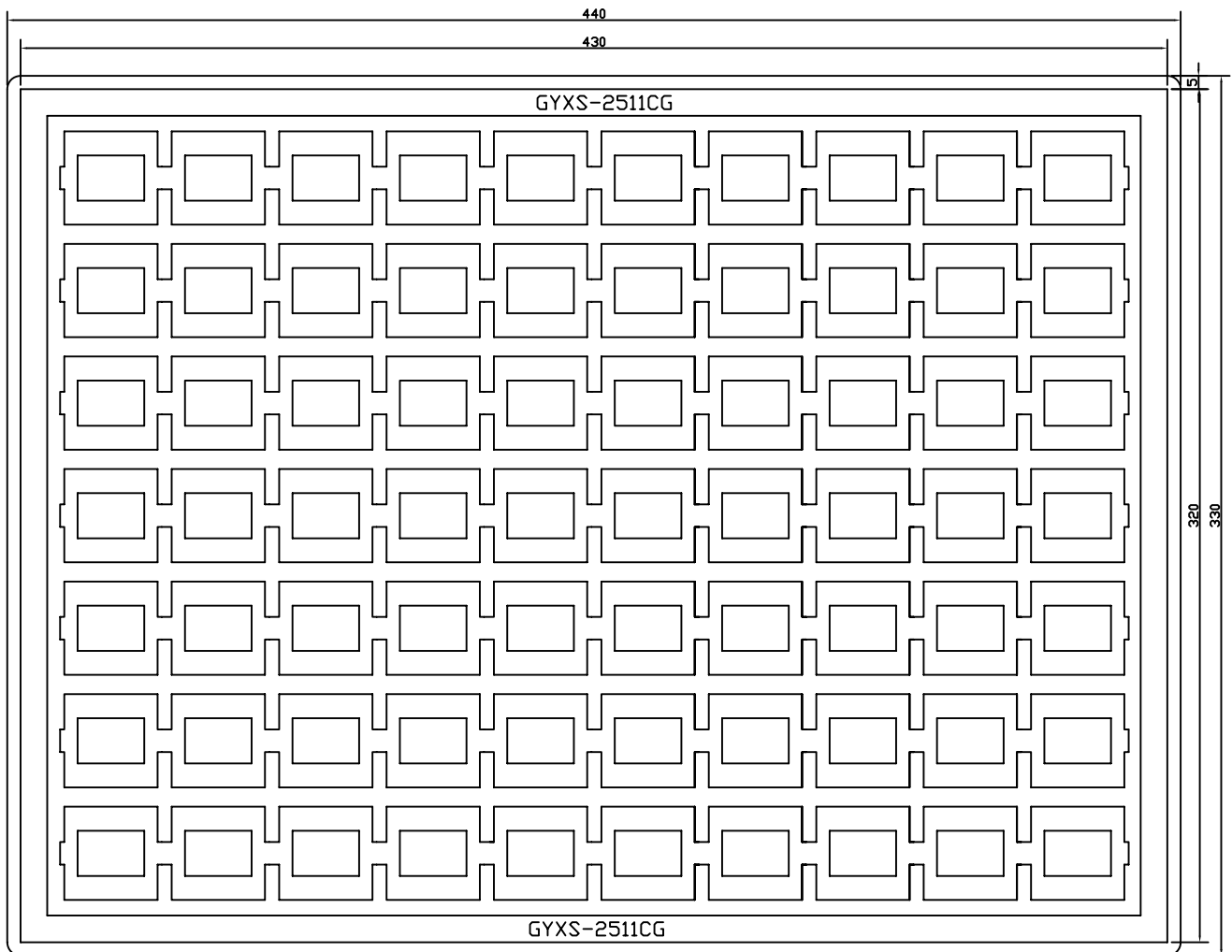
Note:

- 1.V and H means the upper limit of specified characteristics.L and W means initial value.
- 2.Measurment shall be taken between 2 hours and after the test pieces have been returned to normal ambient conditions after completion of each test.



DISPLAY PACKAGE BOX DIMENSIONS SPECIFICATON

GYXS-2511CG



2511CG Plastic Box



DISPLAY PACKAGE BOX DIMENSIONS SPECIFICATON

GYXS-2511CG

Package Type:

DIMENSIONS ITEM	SYMBOL	DIMENSIONS SPECIFICATION	
		MIN.(mm)	MAX.(mm)
Overall length	L	450	470
Overall width	W	320	340
Overall thickness	H	390	410

OUTER BOX

