



PARA LIGHT ELECTRONICS CO., LTD.
4F, No.1, Lane 93, Chien Yi Road, Chung Ho City, Taipei, Taiwan.
Tel: 886-2-2225-3733 Fax: 886-2-2225-4800
E-mail: para@para.com.tw <http://www.para.com.tw>

DATA SHEET

PART NO. : B-2233G

REV : A / 0

CUSTOMER'S APPROVAL : _____

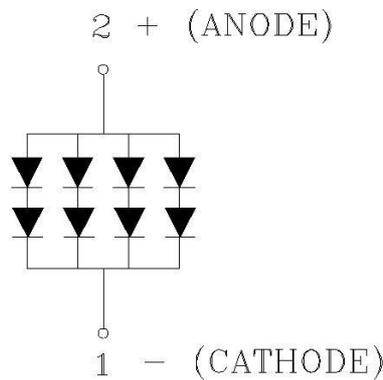
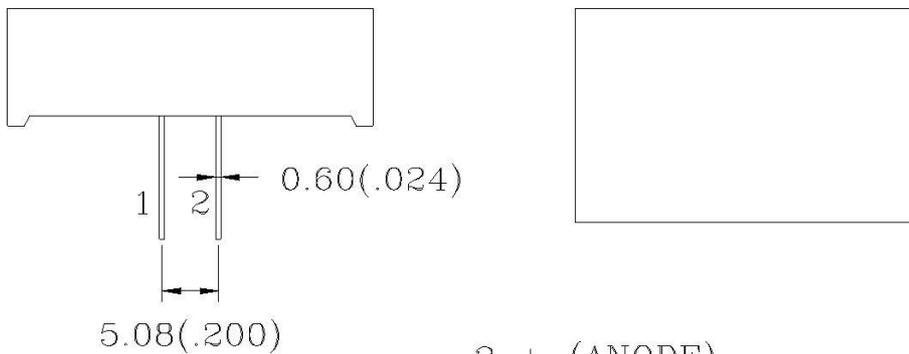
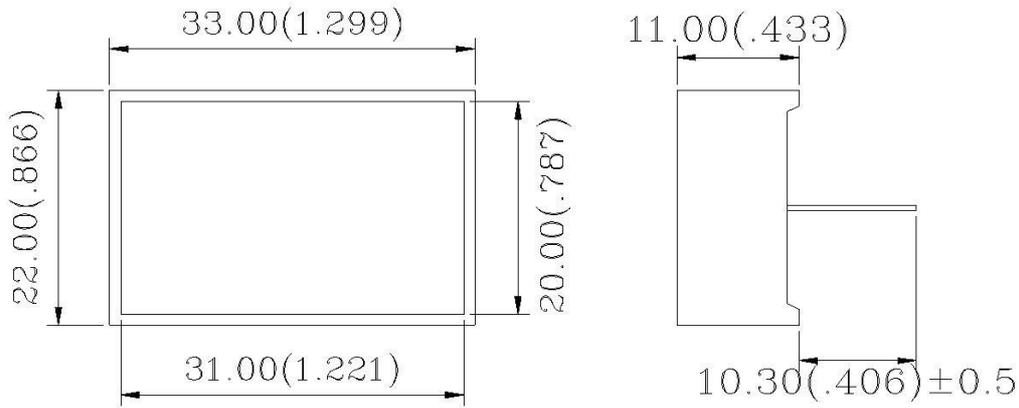
DCC : _____

DRAWING NO. : DS-17-11-0396G

DATE : 2011-12-19

Page : 1

PACKAGE DIMENSIONS



NOTES : 1. All dimensions are in millimeters. (inches)
 2. Tolerance is $6 \pm 0.25(0.010)$ unless otherwise specified.



20.00mm x 31.00mm SQUARE LIGHT BAR

B-2233G

REV:A / 0

FEATURES

- ∩ 20.00 x 31.00mm SQUARE LIGHT BAR
- ∩ LOW POWER REQUIREMENT
- ∩ CAN BE USED WITH PANEL AND LEGEND MOUNT
- ∩ SUITABLE FOR MULTIPLEX OPERATION
- ∩ EASY MOUNTING ON P.C.B
- ∩ Pb FREE PRODUCTS
- ∩ ROHS COMPLIAMCE
- ∩ GREEN SEGMENTS

Raw Material : GaP/GaP

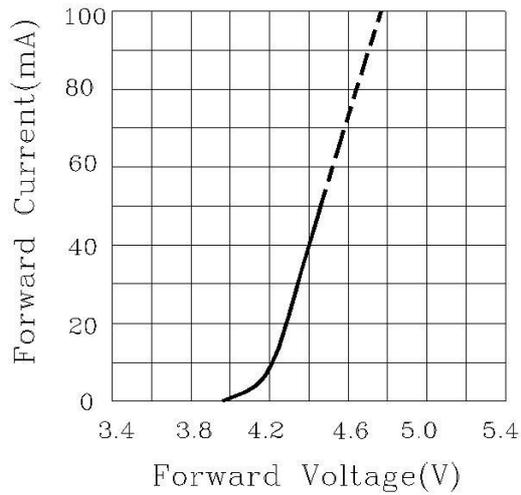
ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

SYMBOL	PARAMETER	YELLOW GREEN	UNIT
PD	Power Dissipation Per Bar	280	mW
VR	Reverse Voltage Per Bar	10	V
IAF	Continuous Forward Current Per Bar	50	mA
—	Derating Linear From 25°C Per Bar	0.33	mA/°C
Topr	Operating Temperature Range	-35°C to 85°C	
Tstg	Storage Temperature Range	-35°C to 85°C	

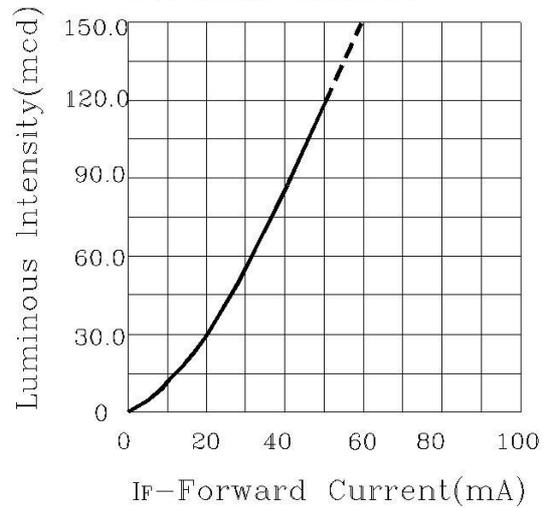
ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

SYMBOL	PARAMETER	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
VF	Forward Voltage , Per Bar	IF = 40mA		4.4	5.6	V
IR	Reverse Current , Per Bar	VR = 10V			100	mA
λP	Peak Emission Wavelength	IF = 20mA		568		nm
λD	Dominant Wavelength	IF = 20mA		570		nm
Δλ	Spectral Line Half—Width	IF = 20mA		30		nm
IV	Luminous Intensity Per Bar	IF = 20mA	12.0	30.0		mcd

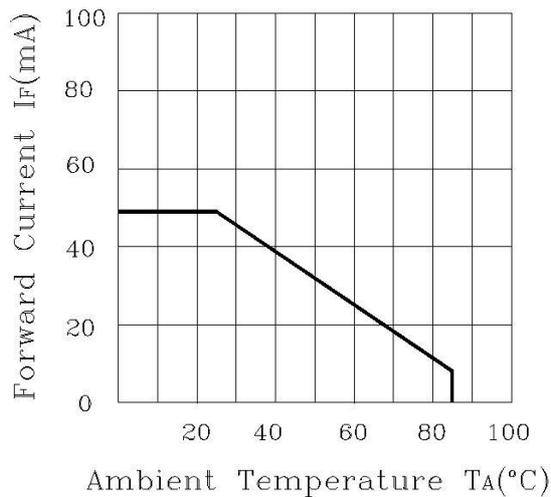
FORWARD CURRENT Vs.
FORWARD VOLTAGE



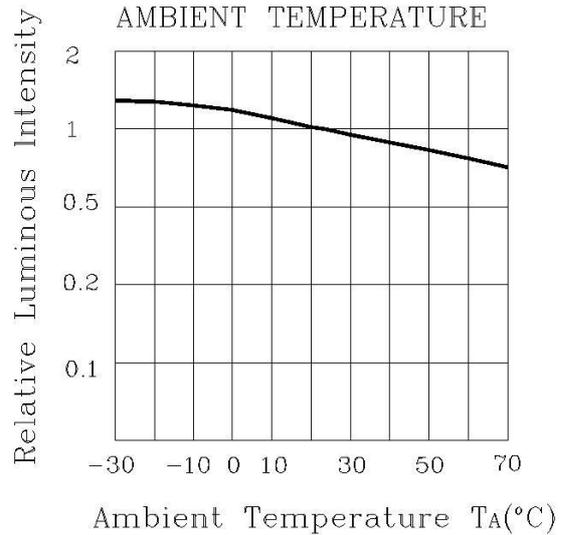
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



SOLDERING

METHOD	SOLDERING CONDITIONS	REMARK
DIP SOLDERING	Bath temperature: 260 max Immersion time: with 5 sec	<input type="checkbox"/> Solder no closer than 2mm from the base of the package <input type="checkbox"/> Using soldering flux, "RESIN FLUX" is recommended.
SOLDERING IRON	Soldering iron: 30W or smaller Temperature at tip of iron: 260°C or lower Soldering time: within 5 sec.	<input type="checkbox"/> During soldering, take care not to press the tip of iron against the PIN. (To prevent heat from being transferred directly to the PIN.)

1) When soldering the PIN of Display in a jig that the package is fixed with a panel (See flg.1), be careful not to stress the PIN with iron tip. When soldering Display in a condition that the package is fixed with a panel, be careful not to cling and stress the surface of Display on the panel to avoid damaging the Display.

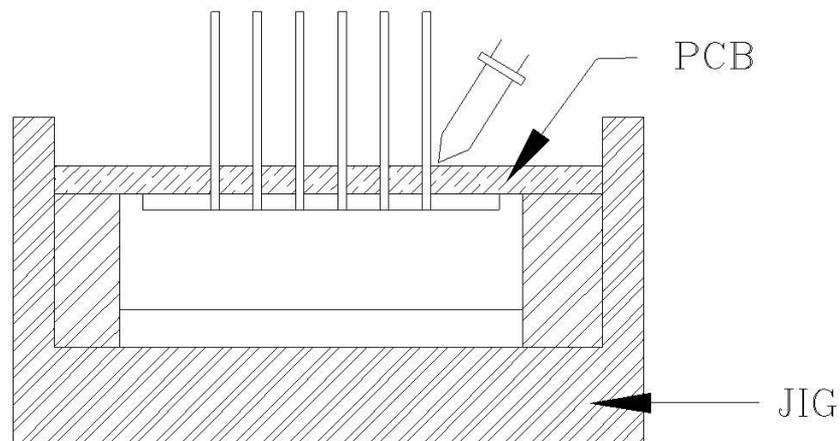


Fig.1

Regarding solution in the tinning oven for product-tinning, compound sub-solution made of tin & copper and silver is proposed with the temperature of Celsius 260. The proportion of the alloyed solution is tin 95.5: copper 3.5: silver 0.5 by percentage. The time of tinning is constantly 3 seconds.