

PARA LIGHT ELECTRONICS CO., LTD.

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PART NO. : DLA25G267G

REV: A/1

CUSTOMER'S APPROVAL :

DCC :

DRAWING NO. : DS-12-12-0406G

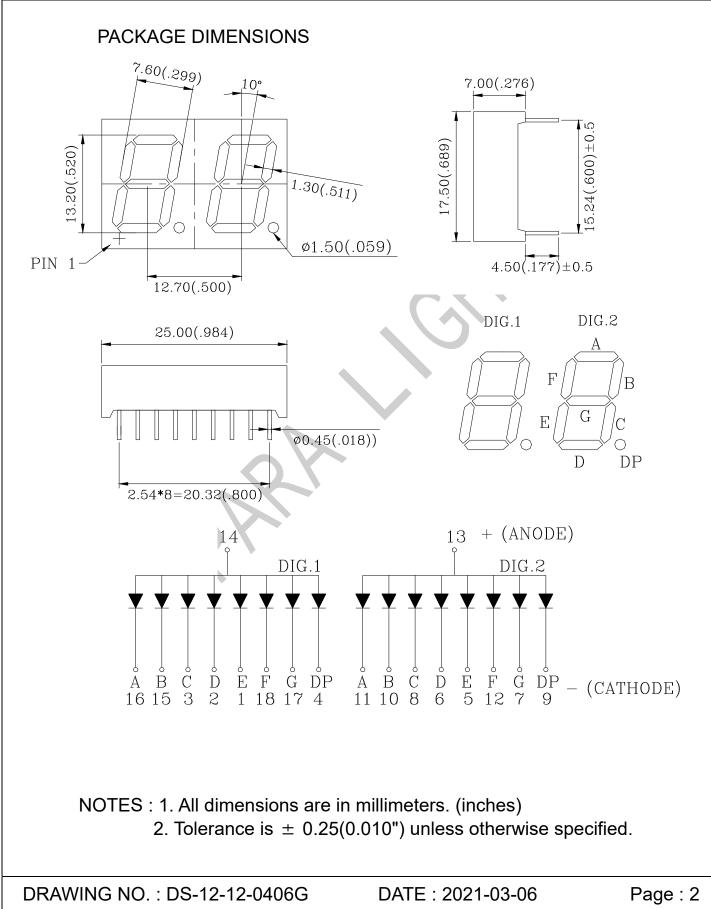
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FEATURES

- * 13.20mm (0.52 inch) DIGIT HEIGHT
- * COMMON ANODE
- * I.C. COMPATIBLE
- * LOW POWER CONSUMPTION
- * Pb FREE PRODUCTS
- * ROHS COMPLIANCE
- * GRAY FACE, GREEN SEGMENTS

Raw Material : GaAlInP/GaAs

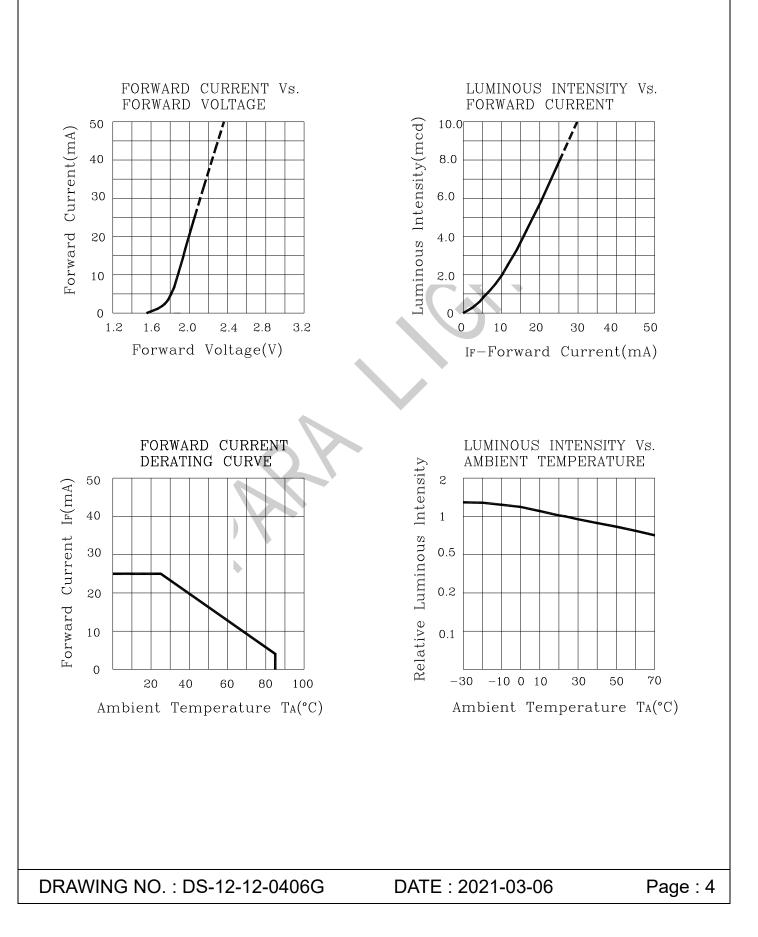
ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

				(/						
S	SYMBOL PARAMETER						Y	YELLOW GREEN			UNIT	
	PD Power Dissipation Per Segment					75				mW		
	VR	Reverse Vo				5				V		
	IAF	Continuous	egment		25				mA			
	IPF	Peak Forward Current Per Segment						85			mA	
		(1/10 Duty Cycle,0.1ms Pulse Width)										
	Topr	Topr Operating Temperature Range							°C			
	Tstg	Storage Ter	Storage Temperature Range					- 35°C to 85°C				
EL	ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)											
SY	(MBOL	PARAMETER			TEST CONDITION MIN.		TYP.	MAX.		UNIT		
	VF	Forward Volta	tage , Per Segment		IF = 20mA				2.0	2.4		V
	IR	Reverse Current,		it , Per Segment		VR = 5V				10		μA
	λΡ	Peak Emissio	n Wavelength		IF = 20mA			568			nm	
	λD Dominant Wa		velength		IF = 20mA				570			nm
	Δλ	Spectral Line	Half - Width		IF = 20mA				30			nm
	IV	Luminous Inte	uminous Intensity Per Segment			IF = 10mA		0.8	2.0	2.0		mcd
BIN	BIN CODE (IF = 10mA)											
Di	ice	Bin	F	G		Н			J			K
	l∨(r	ncd)	0.8-1.31	1.32-1.	87	1.88-2.34	2.35	-3.07	3.08-4.12		4.13-5.11	
TOLERANCE IS: $\pm 15\%$												
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•SOLDERING

METHOD	SOLDERING CONDITIONS	REMARK						
DIP SOLDERING	Bath temperature: 260℃ max Immersion time: with 5 sec	 Solder no closer than 2mm from the base of the package Using soldering flux," RESIN FLUX" is recommended. 						
SOLDERING IRON	Soldering iron: 30W or smaller Temperature at tip of iron: 260℃ or lower Soldering time: within 5 sec.	 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.

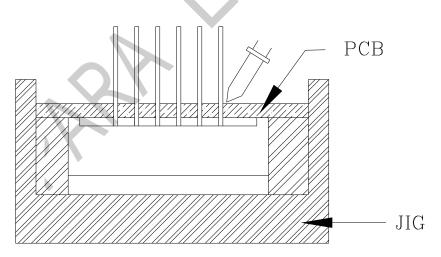


Fig.1

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.

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2) Similarly, when a jig is used to solder the Display to PC board, take care as much as possible to avoid steering the PIN (See Fig.2).

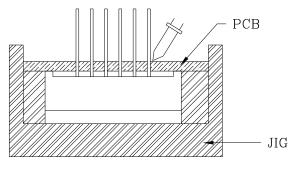
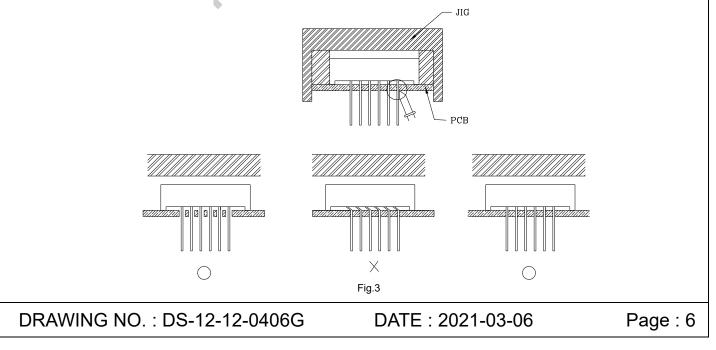


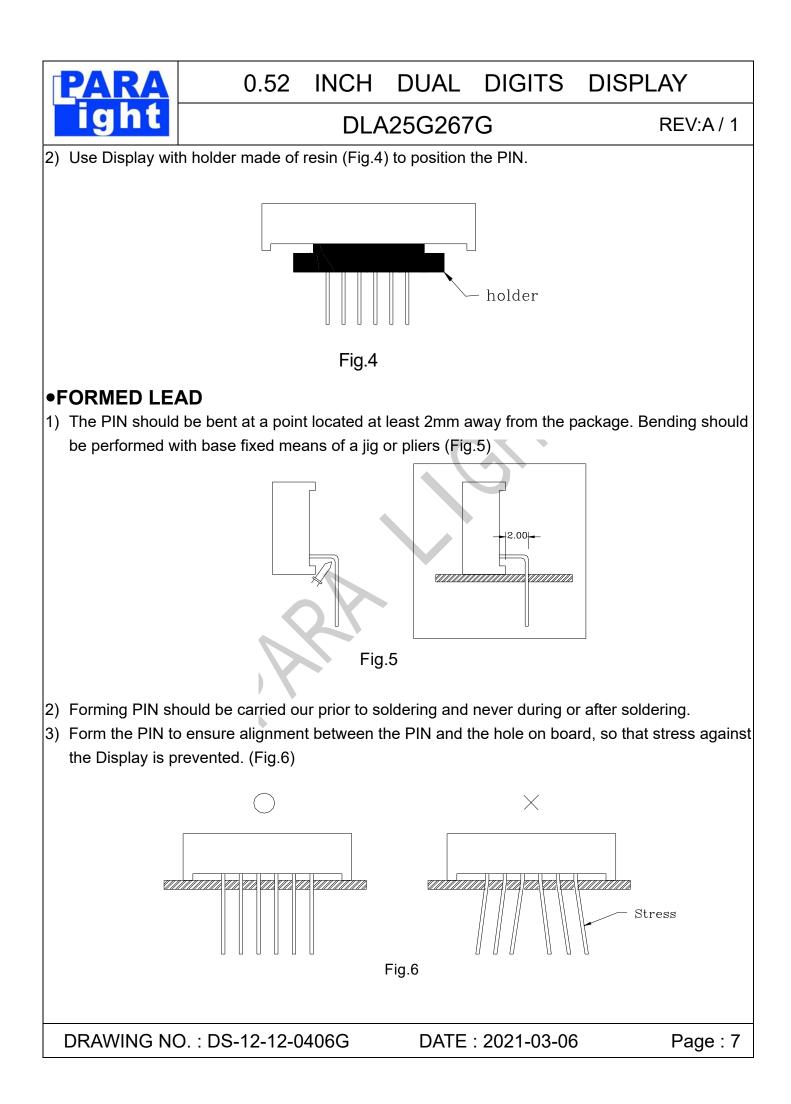
Fig.2

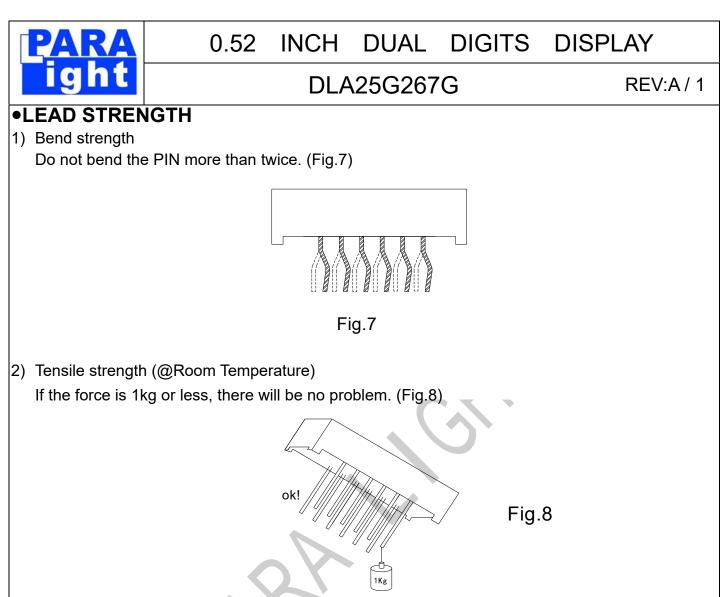
- 3) Repositioning after soldering should be avoided as much as possible. If inevitable, be sure to preserve the soldering conditions with irons stated above: select a best-suited method that assures the least stress to the Display.
- 4) PIN cutting after soldering should be performed only after the Display temperature has returned to normal temperature.

•LED MOUNTING METHOD

1) When mounting the Display by using a case, as shown Fig.3, ensure that the mounting holds on the PC board match the pitch of the PIN correctly-tolerance of dimensions of the respective components including the Display should be taken into account especially when designing the case, PC board, etc. to prevent pitch misalignment between the PIN and board holes, the diameter of the board holes should be slightly larger than the size of the PIN. Alternatively, the shape of the holes should be made oval. (See Fig.3)







•HANDLING PRECAUTIONS

Although rigid against vibration, the Display may damaged or scratched if dropped. So take care when handling.

• STORAGE

- The Display should be stored at 30°C or less and 70% RH or less after being shipped from PARA and the storage life limits are 3 months.
- 2) PARA Display lead frames are comprised of a stannum plated iron alloy. The silver surface may be affected by environments which contain corrosive gases and so on. Please avoid conditions which may cause the Display to corrode, tarnish or discolor. This corrosion or discoloration may cause difficulty during soldering operations. It is recommended that the Display be used as soon as possible.
- 3) Please avoid rapid transitions in ambient temperature, especially, in high humidity environments where condensation can occur.

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• HEAT GENERATION

- 1) Thermal design of the end product is of paramount importance. Please consider the heat generation of the Display when making the system design. The coefficient of temperature increase per input electric power is affected by the thermal resistance of the circuit board and density of Display placement on the board, as well as other components. It is necessary to avoid intense heat generation and operate within the maximum ratings given in this specification.
- The operating current should be decided after considering the ambient maximum temperature of Display .

•OTHERS

- 1) Care must be taken to ensure that the reverse voltage will not exceed the absolute maximum rating when using the Display with matrix drive.
- 2) Flashing lights have been known to cause discomfort in people; you can prevent this by taking precautions during use. Also, people should be cautious when using equipment that has had Display incorporated into it.
- 3) The Display described in this brochure are intended to be used for ordinary electronic equipment (such as office equipment, communications equipment, measurement instruments and household appliances). Consult PARA's sales staff in advance for information on the applications in which exceptional quality and reliability are required, particularly when the failure or malfunction of the Display may directly jeopardize life or health (such as for airplanes, aerospace, submersible repeaters, nuclear reactor control systems, automobiles, traffic control equipment, life support systems and safety devices).
- 4) User shall not reverse engineer by disassembling or analysis of the Display without having prior written consent from PARA. When defective Display are found, the User shall inform PARA directly before disassembling or analysis.
- 5) The formal specifications must be exchanged and signed by both parties before large volume purchase begins.
- 6) The appearance and specifications of the product may be modified for improvement without notice.