

DA08-11GWA

20.3 mm (0.8 inch) Dual Digit Numeric Display



DESCRIPTION

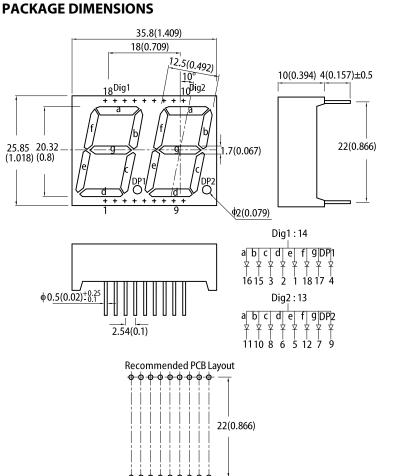
 The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode

FEATURES

- 0.8 inch digit height
- Excellent character appearance
- · Easy mounting on P.C. boards or sockets
- Two digit package simplifies alignments & assembly
- Mechanically rugged
- Standard: gray face, white segment
- RoHS compliant

APPLICATIONS

- · Home and smart appliances
- · Display time and digital combination
- · Industrial and instrumental applications
- Numeric status



 All dimensions are in millimeters (inches). Tolerance is ±0.25(0.01")unless otherwise noted. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

2.54(0.1)

φ1.0x18

SELECTION GUIDE

Part Number	Emitting Color (Material)	Lens Type	Iv (ucd) @ 10mA ^[1]		Description
			Min.	Тур.	Description
DA08-11GWA	Green (GaP)	White Diffused		11000	Common Anode, Rt. Hand Decimal
		White Dinuseu	*1400	*3300	

- Notes: 1. Luminous intensity / luminous Flux: +/-15%. * Luminous intensity value is traceable to CIE127-2007 standards.

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ELECTRICAL / OPTICAL CHARACTERISTICS at T_A=25°C

Parameter	Symbol	Emitting Color	Value		Unit
			Тур.	Max.	Unit
Wavelength at Peak Emission I_F = 10mA	λ_{peak}	Green	565	-	nm
Dominant Wavelength $I_F = 10mA$	λ_{dom} ^[1]	Green	568	-	nm
Spectral Bandwidth at 50% Φ REL MAX I _F = 10mA	Δλ	Green	30	-	nm
Capacitance	С	Green	15	-	pF
Forward Voltage I _F = 10mA	V _F ^[2]	Green	2.0	2.4	V
Reverse Current (V _R = 5V)	I _R	Green	-	10	μA

Notes:

The dominant wavelength (λd) above is the setup value of the sorting machine. (Tolerance λd : ±1nm.)
Forward voltage: ±0.1V.
Wavelength value is traceable to CIE127-2007 standards.
Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Parameter	Symbol	Value	Unit	
Power Dissipation	PD	62.5	mW	
Reverse Voltage	V _R	5	V	
Junction Temperature	Tj	110	°C	
Operating Temperature	T _{op}	-40 To +85	°C	
Storage Temperature	T _{stg}	-40 To +85	°C	
DC Forward Current	IF	25	mA	
Peak Forward Current	I _{FM} ^[1]	140	mA	
Electrostatic Discharge Threshold (HBM)	-	8000	V	
Lead Solder Temperature ^[2]		260°C For 3-5 Seconds		

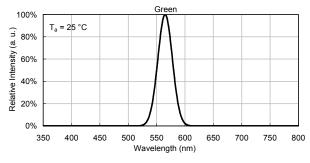
ABSOLUTE MAXIMUM RATINGS at T_A=25°C

Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width. 2. 2mm below package base. 3. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

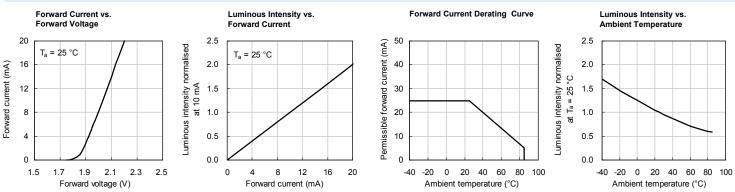
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TECHNICAL DATA

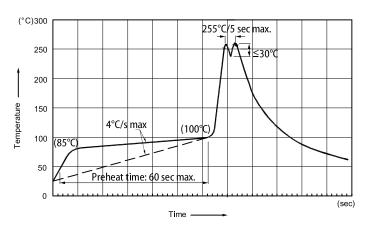








RECOMMENDED WAVE SOLDERING PROFILE



Notes:

 Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C

4. Fixtures should not incur stress on the component when mounting and during soldering process.

Soldering General Notes

- 1. Through-hole displays are incompatible with reflow soldering.
- 2. If components will undergo multiple soldering processes, or other processes where the components may be subjected to intense heat, please check with Kingbright for compatibility.

CLEANING

- 1. Mild "no-clean" fluxes are recommended for use in soldering.
- 2. If cleaning is required, Kingbright recommends to wash components with water only. Do not use harsh organic solvents for cleaning because they may damage the plastic parts .
- 3. The cleaning process should take place at room temperature and the devices should not be washed for more than one minute.
- 4. When water is used in the cleaning process, Immediately remove excess moisture from the component with forced-air drying afterwards.

Peak wave soldering temperature between 245°C ~ 255°Cfor 3 sec (5 sec max).

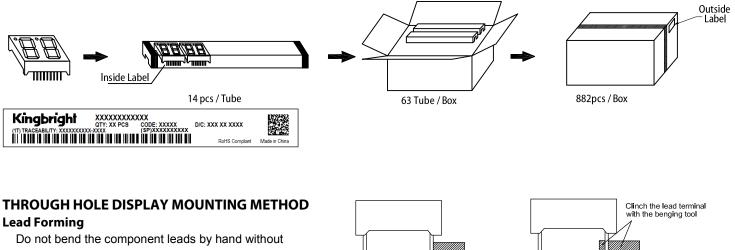
^{3.} Do not apply stress to the epoxy resin while the temperature is above 85°C.

^{5.} SAC 305 solder allov is recommended.

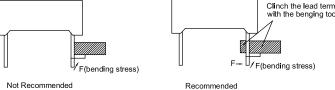
No more than one wave soldering pass.
During wave soldering, the PCB top-surface temperature should be kept below 105°C.

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PACKING & LABEL SPECIFICATIONS

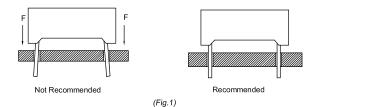


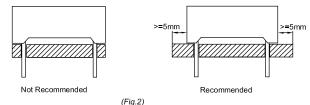
proper tools. The leads should be bent by clinching the upper part of the lead firmly such that the bending force is not exerted on the plastic body.



Installation

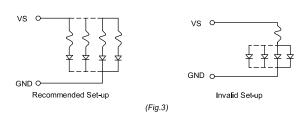
- 1. The installation process should not apply stress to the lead terminals.
- 2. When inserting for assembly, ensure the terminal pitch matches the substrate board's hole pitch to prevent spreading or pinching the lead terminals. (Fig. 1)
- 3. The component shall be placed at least 5mm from edge of PCB to avoid damage caused excessive heat during wave soldering.(Fig.2)





CIRCUIT DESIGN NOTES

- 1. Protective current-limiting resistors may be necessary to operate the LEDs within the specified range.
- 2. LEDs mounted in parallel should each be placed in series with its own current-limiting resistor. (Fig.3)
- 3. The driving circuit should be designed to protect the LED against reverse voltages and transient voltage spikes when the circuit is powered up or shut down.
- 4. The safe operating current should be chosen after considering the maximum ambient temperature of the operating environment.
- 5. Prolonged reverse bias should be avoided, as it could cause metal migration, leading to an increase in leakage current or causing a short circuit.



PRECAUTIONARY NOTES

- The information included in this document reflects representative usage scenarios and is intended for technical reference only
- The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to 2 the latest datasheet for the updated specifications. 3. When using the products referenced in this document, please make sure the product is being operated within the environmental and electrical limits specified in the datasheet. If
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