



Zhejiang BOE Display Technology Co.,Ltd
ADD:C-1 Bridge RenMin(E) R. ShaoXing Zhejiang CHINA
TEL:0575-89105613 89109999-9603
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LED DISPLAY

ZDD-0804Q-11

DATA SHEET

- SPEC NO: ZBOE150345
- DESIGN NO:
- REV. NO: 01
- CUSTOMER:
- APPLICATION:
- EFFECTIVE: Mar 26, 2015

Approver		Checker		Engineer	
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FEATURES

- 0.80inch(20.3mm)DIGIT HEIGHT
- CONTINUOUS UNIFORM SEGMENTS
- LOW POWER REQUIREMENT
- EXCELLENT CHARACTERS APPEARANCE
- HIGH BRIGHTNESS & HIGH CONTRANCE
- WIDE VIEWING ANGLE
- SOLID STATE RELIABILITY
- MEET RoHS EU DIRECTIVE

DESCRIPTION

The ZDD-0804Q-11 is a 0.8 inch (20.3mm) double digit seven-segment display.
This device is single-color applicable display.
This device uses Super Bright Orange LED Chips (AlGaInP).
This device is coved with a gray ink and packaged with white epoxy.

DEVICE

PART NO.	DESCRIPTION
SINGLE-COLOR	Multiplex Common Anode
ZDD-0804Q-11	



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■ Dice Material	AlGaInP	Super Bright Orange
■ Light Color	Super Bright Orange	
■ Lens Color	Milky Diffusion	
■ Surface Color	Gray Ink	

ABSOLUTE MAXIMUM RATINGS (Ta = 25C)

ITEM	PARAMETER	DICE TYPE	MAX.	UNIT
P_D	Power Dissipation / chip	Super Bright Orange	50	mW
V_R*	Reverse Voltage / chip	Super Bright Orange	5	V
I_{AF}	Average Forward Current / chip	Super Bright Orange	20	mA
I_{PF}	Peak Forward Current (Duty=0.1,1KHz) / chip	Super Bright Orange	60	mA
-	Derating Linear From 25C	Super Bright Orange	0.28	mA/C
T_{OPR}	Operating Temperature Range	-25 C to + 85 C		
T_{STG}	Storage Temperature Range	-35 C to + 95 C		

■ Lead Soldering Temperature(1.6 mm (0.063 inch) From Body)265 C For 5 Seconds

ELECTRO-OPTICAL CHARACTERISTICS/CHIP (Ta = 25C)

ITEM	PARAMETER	TEST CONDITION	DICE TYPE	MIN.	TYP.	MAX.	UNIT
V_F	Forward Voltage	I _F = 20mA	Super Bright Orange		2.0	2.5	V
I_R	Reverse Current	V _R *= 5V	Super Bright Orange			100	uA
λ_D	Dominant Wave Length	I _F = 20mA	Super Bright Orange		625		nm
Δλ	Spectral Half-Width	I _F = 20mA	Super Bright Orange		20		nm
I_V	Luminous Intensity	I _F = 10mA	Super Bright Orange	3**			mcd
I_{v-m}	Luminous Intensity Matching Ratio	I _F = 10mA	Super Bright Orange			2:1	

■ Optical crosstalk for adjacent segment less than 3 %.

■ Note1: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage) eye-response curve

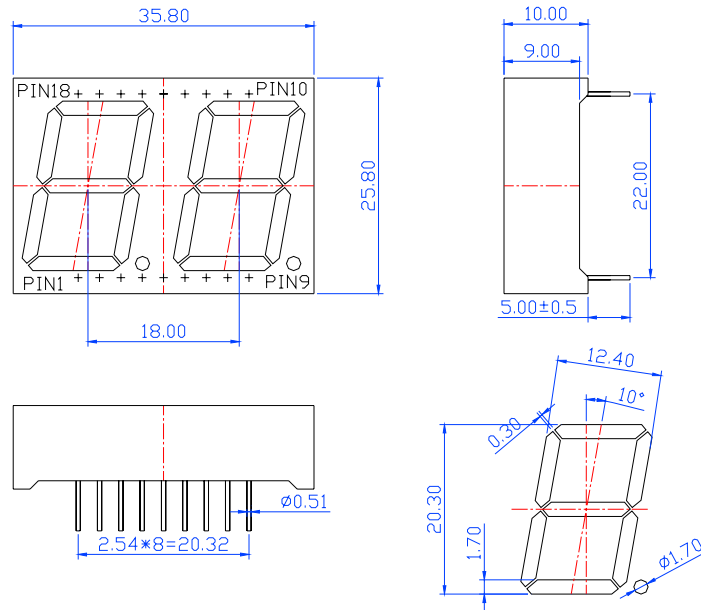
■ Note2: The customer requirement for wavelength tolerance of all LED modules and discrete LEDs is:
 for one electronic board (LED module and discrete LEDs): +/- 2nm;
 for different electronic boards: +/- 5nm.

■ * Reverse voltage is only for IR test. Long term reverse bias is not recommended.

■ ** The above value of luminous intensity per segment is a preliminary estimation based on references to similar products that having similar package outline and dice type. The true value of the intensity has yet to be determined by experimental measurement.

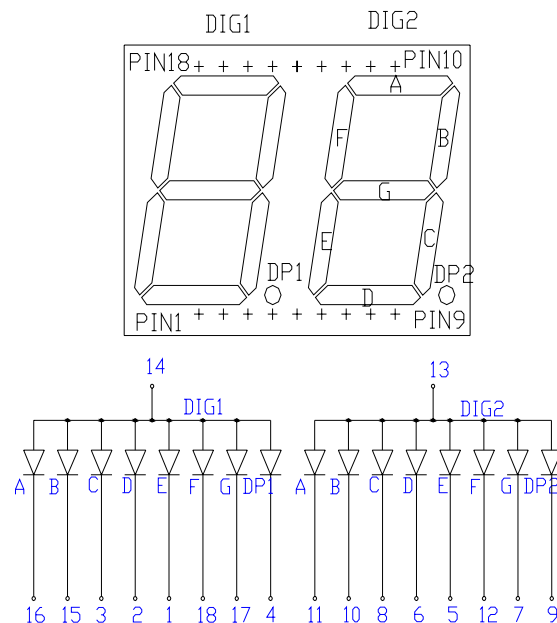


PACKAGE DIMENSIONS



- NOTES: All dimensions are in millimeters. Unspecified Tolerances are $\pm 0.25\text{mm}$.
- Case warpage rate $\leq 0.8\%$
- Pin tip's shift tolerance is $\pm 0.5\text{mm}$.

INTERNAL CIRCUIT DIAGRAM



■ THE SIGN IS STANDARD FOR SUPER BRIGHT ORANGE CHIP

I _v TEST SEGMENT	SUPER BRIGHT ORANGE	1G
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京东方
BOE

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THE REVISION CURRICULUM

REV. NO.	Revision content	Revision date	Engineer
01	ORIGINALITY	2015-3-26	张华锋