



TOYO LED ELECTRONICS LIMITED

Room 1610, Hong Kong Plaza, 188 Connaught Road West, Hong Kong.
Tel : (852) 2540 7288 Fax : (852) 2517 1797
http://www.toyo-led.com E-mail : sales@toyo-led.com



P/N: E40241-L-K-0-W

SPECIFICATION FOR CUSTOMER APPROVAL

P/N: E40241-L-K-0-W

DATE : December 22, 2014

PREPARED BY : ChenLifen

CONFIRMED BY : YanGuoliang

PLEASE CONFIRM & SIGN BACK THIS SHEET TO US

CUSTOMER: _____

(COMPANY CHOP)

APPROVAL BY: _____

(SIGNATURE)



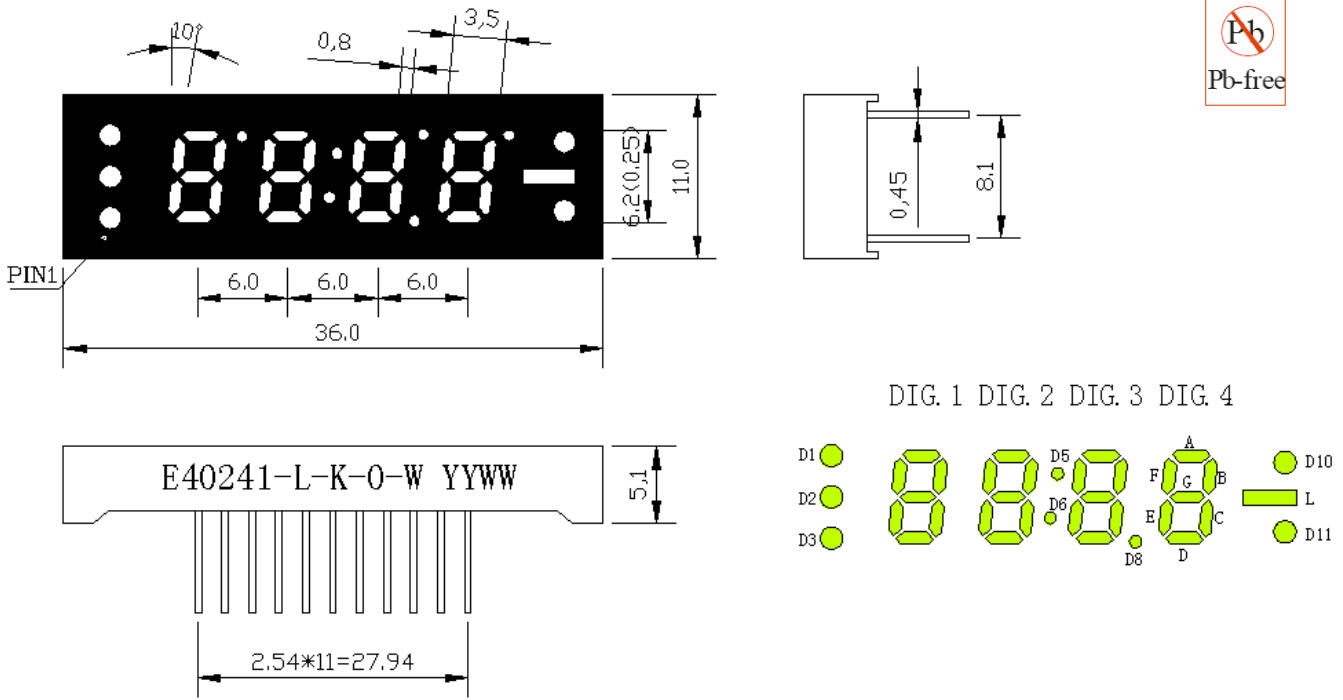
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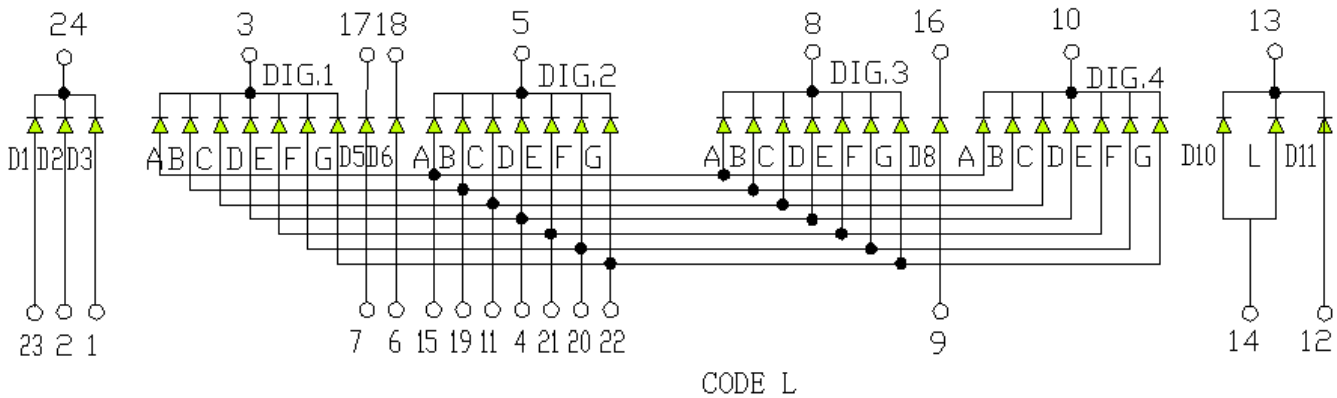


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PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



NOTES:

1. All dimensions are in millimeter;
2. Tolerance is $\pm 0.25\text{mm}$, unless other specified;
3. Pin length, housing color, marking no & circuit diagram can be customized;
4. Specifications are subject to change without notice.



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Chip Material: GaP / GaP Yellow Green LED Chip



ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
Power Dissipation	PD	65	mW
Peak Forward Current (1/10 Duty Cycle, 0.1 Ms Pulse Width)	IPEAK	140	mA
DC Forward Current	IF	25	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	TA	-40°C to +85°C	
Storage Temperature Range	TSTG	-40°C to +85°C	
Solder temperature 1/16 inch below seating plane for 3 seconds at 260°C			

ELECTRICAL OPTICAL CHARACTER AND CURVES (Ta = 25 °C)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	LOCATION	TEST CONDITION
Forward Voltage	VF	-	2.30	2.60	V	Per Segment	IF = 20mA
Luminous Intensity	Iv	12.0	13.0	14.0	mcd	Per Segment	IF = 20mA
Peak Emission Wavelength	λp	-	568	-	nm	Per Segment	IF = 20mA
Dominant Emission Wavelength	λd	567	572	577	nm	Per Segment	IF = 20mA
Spectral Line Half-Width	Δλ1/2	-	30	-	nm	Per Segment	IF = 20mA
Capacitance	C	-	15	-	pF	Per Segment	VF=0V;f=1MHz
Reverse Current	IR	-	-	10	uA	Per Segment	VR = 5V

Note:

1. Luminous intensity tolerance is ±10%;
2. Dominant Emission Wavelength tolerance is ±5%.



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■ Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

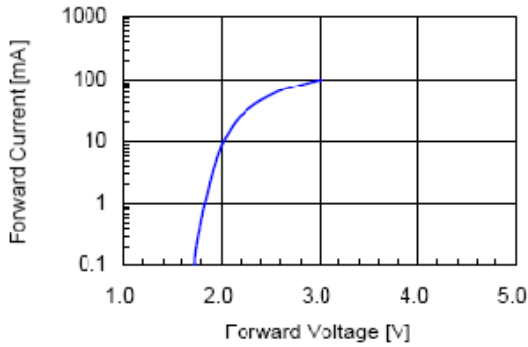


FIG. 2 Relative Intensity Vs. Forward Current

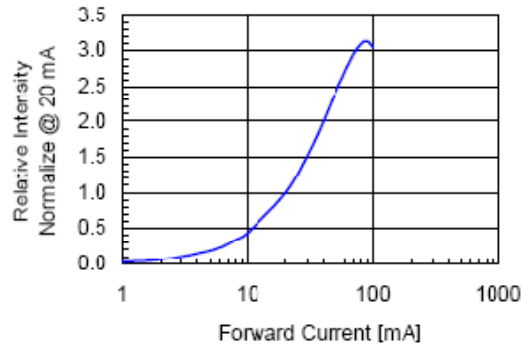


FIG. 3 Forward Voltage Vs. Temperature

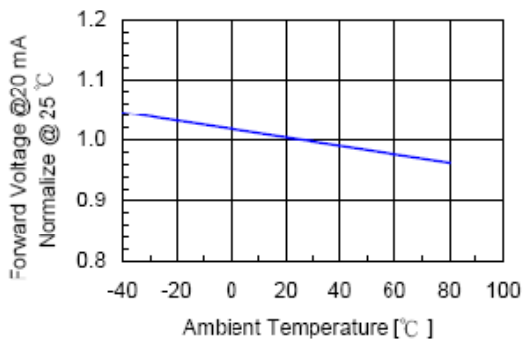


FIG. 4 Relative Intensity Vs. Temperature

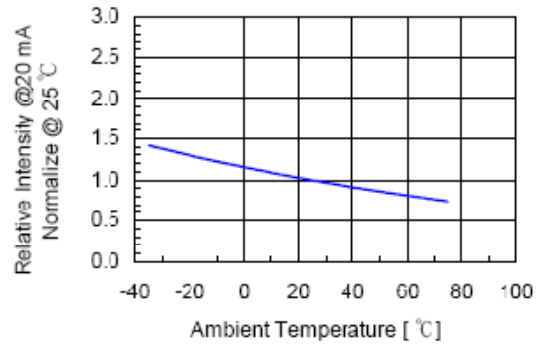
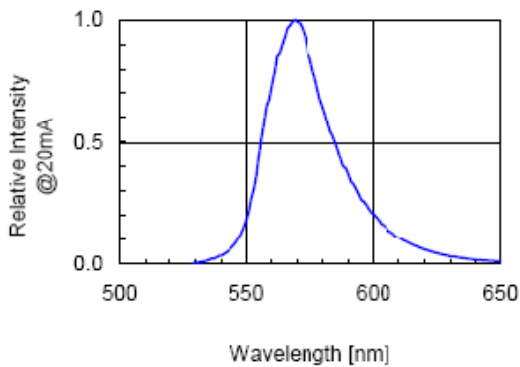


FIG. 5 Relative Intensity Vs. Wavelength





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REVISION HISTORY

DATE	REVISION CONTENTS	VERSION
2014-12-22	New	A