



TOYO LED ELECTRONICS LIMITED

Unit 10-11, 19/F, Metro Loft, 38 KwaiHei Street, Kwai Chung, N.T., Hong Kong
Tel : (852) 2540 7288 Fax : (852) 2517 1797
Http://www.toyo-led.com E-mail : sales@toyo-led.com



P/N: TY-ZDSF7623BLC1-1000

SPECIFICATION FOR CUSTOMER APPROVAL

P/N: TY-ZDSF7623BLC1-1000

DATE : May 17, 2019

PREPARED BY : Steven

CONFIRMED BY :

PLEASE CONFIRM & SIGN BACK THIS SHEET TO US

CUSTOMER: _____
(COMPANY CHOP)

APPROVAL BY: _____
(SIGNATURE)

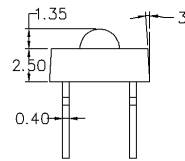
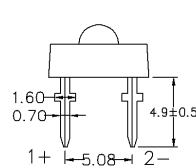
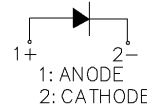
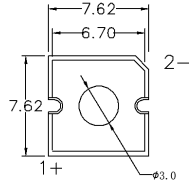


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Selection Guide

Part No.	Dice		Lens Color	Iv(mcd)(IF=20mA)			Viewing Angle (20½°)
	Raw Material	Emitted Color		MIN	TYP	MAX	
TY-ZDSF7623BLC1-1000	InGaN	Blue	Water Clear	780	---	1300	90°

Absolute Maximum Ratings(Ta=25C°)

Item	Symbol	Maximum	Unit
Power Dissipation	PD	102	mW
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	IFP	100	mA
Continuous Forward Current	IFmax	30	mA
Reverse Voltage	VR	5	V
Operating Temperature Range	Topr	-20°C to +75°C	
Storage Temperature Range	Tstg	-30°C to +80°C	
Lead Solder Temperature	Tsol	260°C for 5 seconds (3mm from the base of epoxy)	

Electrical / Optical Characteristics(Ta=25C°)

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Forward Voltage	VF	2.8	---	3.4	V	IF=20mA
Dominant Wavelength	λd	465	---	475	nm	IF=20mA
Peak Wavelength	λp	---	472	---	nm	IF=20mA
Reverse Current	IR	---	---	10	uA	VR=5V

NOTES:

- All dimensions are in millimeter;
- Tolerance is ±0.25mm unless other specified; Luminous intensity tolerance is ±10%;
- Dominant Emission Wavelength tolerance is ±1nm; Specifications are subject to change without notice.



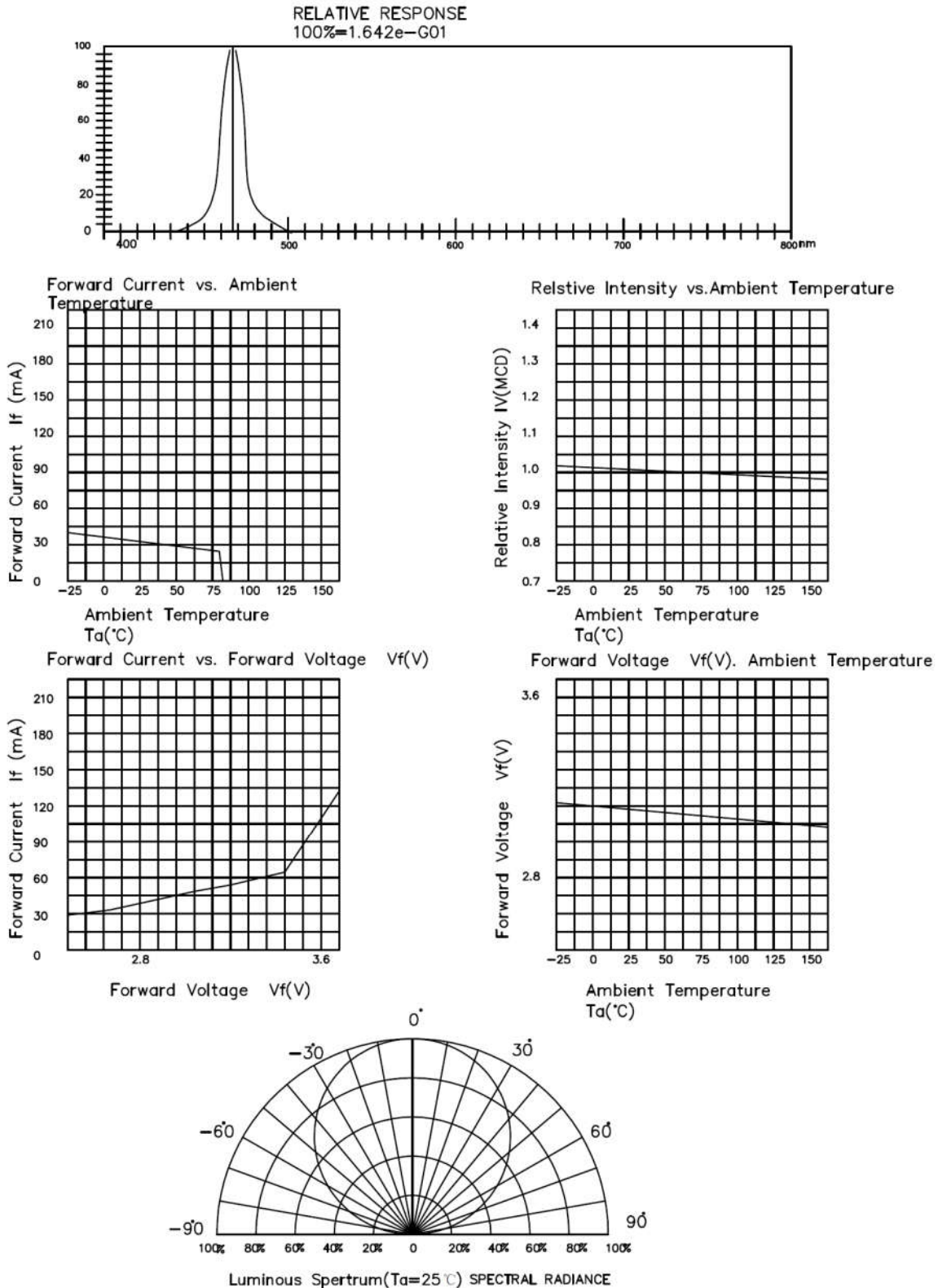
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■ Typical Electro-Optical Characteristic Curve:





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Bin Range

1. IV Ranks (If=20mA)

Bin Code	Bin17	Bin18
IV (MCD)	780-1000	1000-1300

2. VF Ranks (If=20mA)

Bin Code	Bin1	Bin2	Bin3
VF (V)	2.8-3.0	3.0-3.2	3.2-3.4

3. λ D Ranks (If=20mA)

Bin Code	Bin1	Bin2	Bin3	Bin4
λ D (NM)	465-467.5	467.5-470	470-472.5	472.5-475

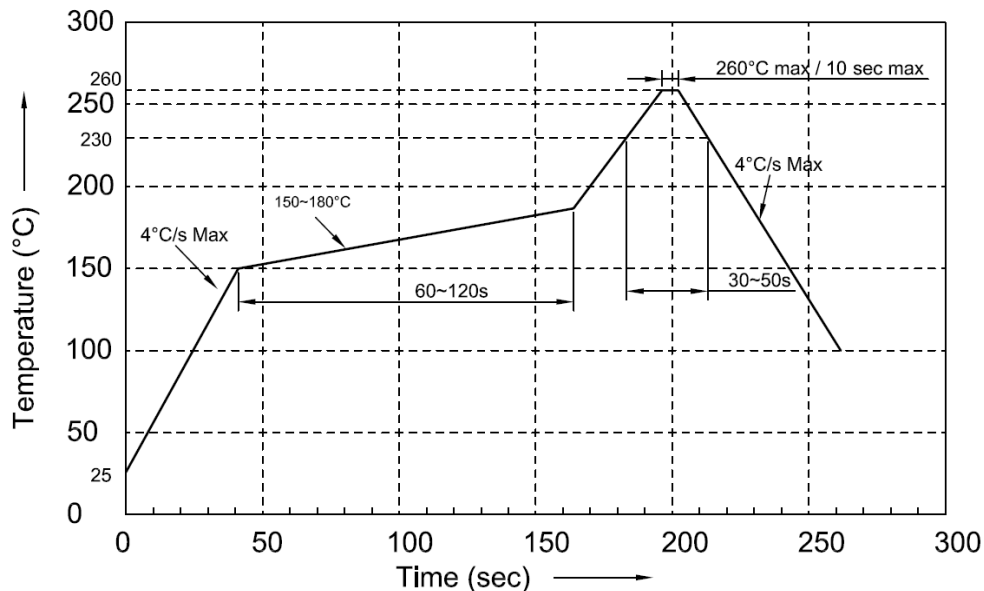


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◇ Reliability Test Items And Conditions

NO.	Item	Test Condition	Test Hr/cycle/time	Sample Qty	Ac/Re
1	Reflow	TEMP:255±5°C;	3-10 sec	22pcs	0/1
2	High Temperature/HumidityStorage	TEMP: 85°C/ R.H.:85%	1000hrs	22pcs	0/1
3	Low Temperature Storage	TEMP:-40°C	1000hrs	22pcs	0/1
4	DC Operating Life	I _f =150mA	1000hrs	22pcs	0/1
5	Temperature Cycle	100°C ± 5°C 30 min. ↑ ↓ 5 min -40°C ± 5°C 30 min.	100 Cycles	22pcs	0/1

◇ SMT Reflow Soldering Instructions



Notes:

1. We recommend the reflow temperature 245±5°C. The maximum soldering temperature should be limited to 260°C for 10s (max).
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.



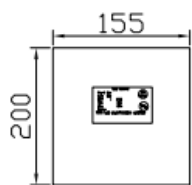
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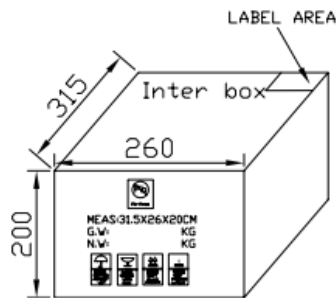


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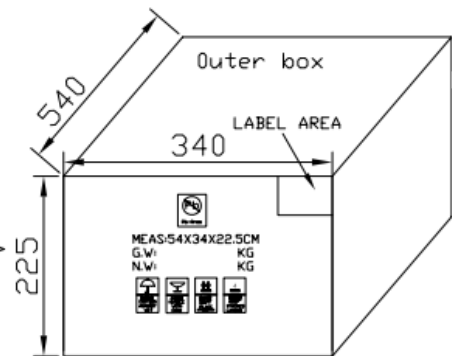
BULK & PACKING DIMENSIONS



ESD POLYBAG



12.5Kpcs/Box
Weight: 4.0kg



25Kpcs/Carton
Weight : 10.0kg



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REVISION HISTORY

DATE	REVISION CONTENTS	VERSION
2019-05-17	New	A