



TOYO LED ELECTRONICS LIMITED

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CODE: WH1

CHARACTERS

Chip Material: InGaN Blue LED Chip

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
Power Dissipation	P _D	68	mW
Peak Forward Current (1/10 Duty Cycle, 0.1 ms Pulse Width)	I _{PEAK}	100	mA
DC Forward Current	I _F	20	mA
Reverse Voltage	V _R	5	V
Electrostatic discharge	ESD	1000	V
Operating Temperature Range	(T _{op}) / T _{stg}	-40°C to +85°C	
Storage Temperature Range	T _{opr} / (T _{stg})	-40°C to +100°C	

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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION (Per Chip)
Forward Voltage	V _F	-	3.0	3.4	V	I _F = 10mA
Luminous Intensity	I _v	200	400	-	mcd	I _F = 10mA
Color Temperature	CCT	-	5000	-	K	I _F = 10mA
Spectral Line Coordinates	Δλ	-	30	-	nm	I _F = 10mA
Reverse Current	I _R	-	-	10	uA	V _R = 5V

Note:

1. The white led light source use 0603/0402 SMD package
2. Luminous intensity tolerance is ±15%;



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Typical Electro-Optical Characteristic Curve

FIG. 1 Forward Current Vs. Forward Voltage

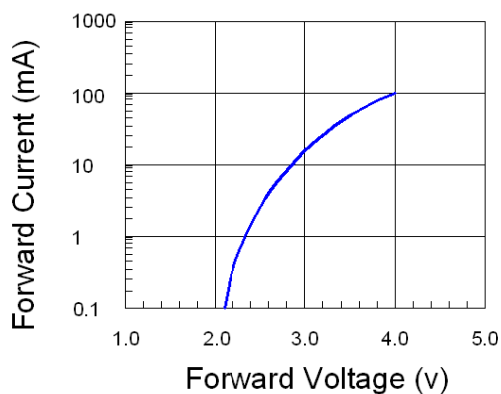


FIG. 2 Relative Intensity Vs. Forward Current

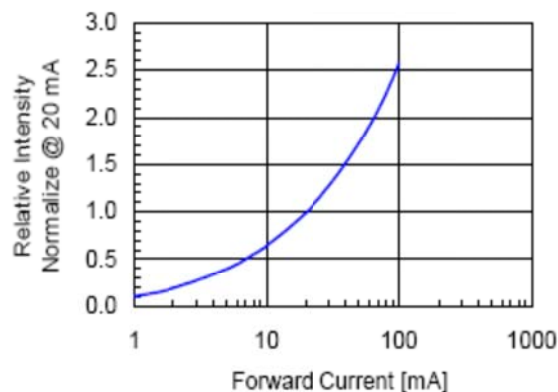


FIG. 3 Forward Voltage Vs. Temperature

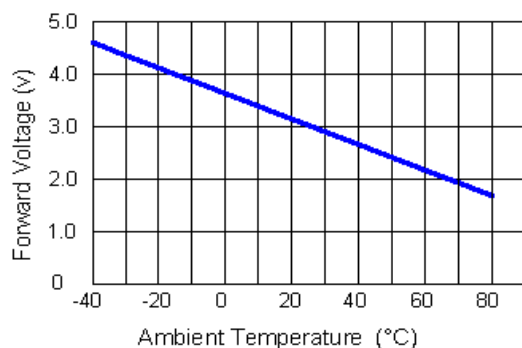


FIG. 4 Relative Intensity Vs. Temperature

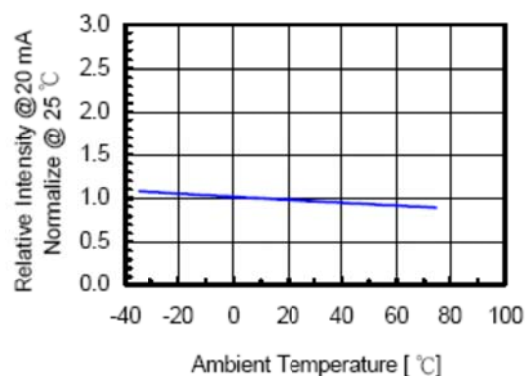


FIG. 5 Relative Intensity Vs. Wavelength

