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 email: sales@toyo-led.com

CODE PG

Chip Material: InGaN / GaN Pure Green LED Chip

Pb-free

ABSOLUTE MAXIMUM RATINGS (Ta = 25℃)

PARAMETER	SYMBOL	MAXIMUM RATING	UNIT
Power Dissipation	P_D	105	mW
Peak Forward Current (1/10 Duty Cycle, 0.1 Ms Pulse Width)	I_{PEAK}	135	mA
DC Forward Current	I_F	25	mA
Reverse Voltage	V_R	5	V
Operating Temperature Range	T_A	-40℃ to +85℃	
Storage Temperature Range	T_{STG}	-40℃ to +85℃	
Solder temperature 1/16 inch below seating plane for 3 seconds at 260℃			

ELECTRICAL OPTICAL CHARACTER AND CURVES (Ta = 25℃)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	LOCATION	TEST CONDITION
Forward Voltage	V_F	3.00	3.20	3.50	V	Per Chip	I_F =20mA
Luminous Intensity	I_V	260.0	285.0	310.0	mcd	Per Chip	I_F =20mA
Peak Emission Wavelength	λp	-	530	-	nm	Per Chip	I_F =20mA
Dominant Emission Wavelength	λd	520	522.5	525	nm	Per Chip	I_F =20mA
Spectral Line Half-Width	Δλ1/2	-	30	-	nm	Per Chip	I_F =20mA
Capacitance	C	-	45	-	pF	Per Chip	VF=0V;f=1MHz
Reverse Current	I_R	-	-	2	uA	Per Chip	VR = 5V

Note:

1. **Luminous intensity tolerance is ±10%;**
2. **Dominant Emission Wavelength tolerance is ±5%;**
3. **Recommend to use 4 chips or below in the parts.**

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 email: sales@toyo-led.com

CODE PG

■ Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

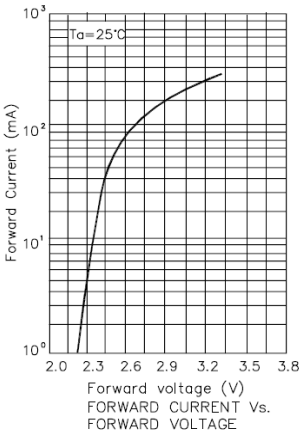

FIG. 2 Relative Intensity Vs. Forward Current

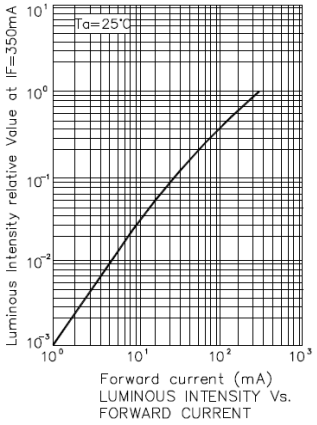

FIG. 3 Forward Current Vs. Temperature

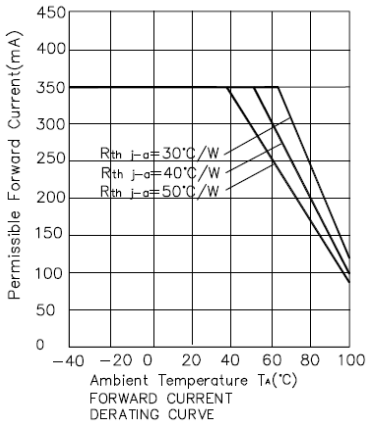

FIG. 4 Relative Intensity Vs. Temperature

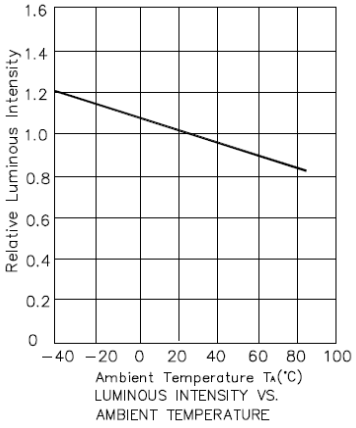

FIG. 5 Relative Intensity Vs. Wavelength