



# 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>

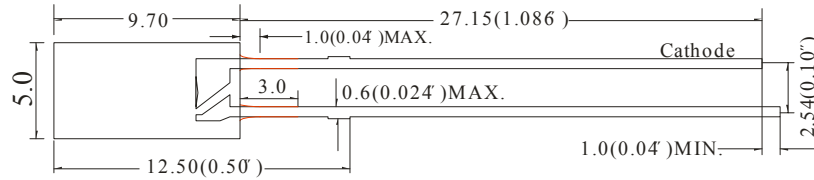
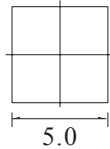
email: [sales@toyo-led.com](mailto:sales@toyo-led.com)



## P/N: TY-527YG1D140-10

5x5x9.7 Rectangular LEDs Series

### PACKAGE DIMENSION



### Selection Guide

Part No.	Dice		Lens Color	(If=20mA)	Viewing Angle (20½)
	Raw Material	Emitted Color		TYP.(mcd)	
TY-527YG1D140-10	GaP	Yellow Green	Green Diffused	10	140°

### Absolute Maximum Ratings(Ta=25C°)

Item	Symbol	Maximum	Unit
Power Dissipation	P <sub>D</sub>	65	mW
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	I <sub>FP</sub>	140	mA
Continuous Forward Current	I <sub>Fmax</sub>	25	mA
Reverse Voltage	V <sub>R</sub>	5	V
Capacitance	C	15	pF
Operating / Storage Temperature Range	Topr / Tstg	-40°C to +85°C	
Lead Solder Temperature	Tsol	260°C for 3 seconds	

### Electrical / Optical Characteristics(Ta=25C°)

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	λ <sub>p</sub>	-	568	-	nm	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>	567	572	577	nm	I <sub>F</sub> =20mA
Spectral Line Coordinates	Δλ	-	30	-		I <sub>F</sub> =20mA
Forward Voltage	V <sub>F</sub>	-	2.30	2.60	V	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>	-	-	10	uA	V <sub>R</sub> =5V

#### NOTES:

- All dimensions are in millimeter(inch);
- Tolerance is ±0.25mm(0.01") especially other specified; Luminous intensity tolerance is ±10%;
- Dominant Emission Wavelength tolerance is ±5%; Specifications are subject to change without notice.



## P/N: TY-527YG1D140-10

5x5x9.7 Rectangular LEDs Series

### ■ Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

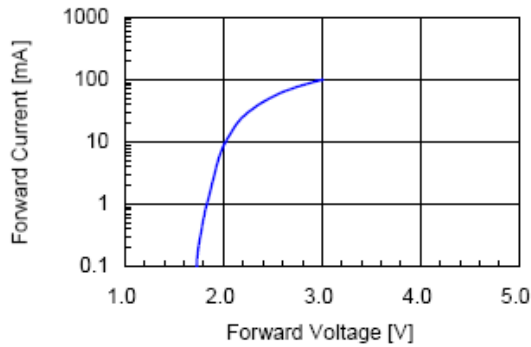


FIG. 2 Relative Intensity Vs. Forward Current

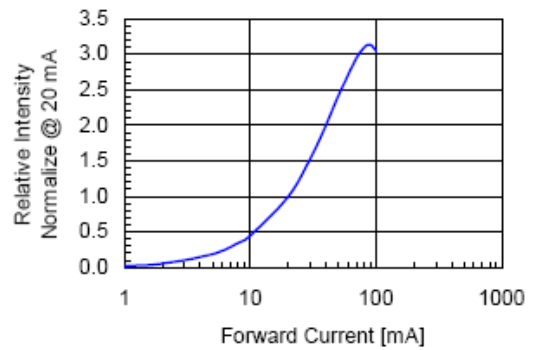


FIG. 3 Forward Voltage Vs. Temperature

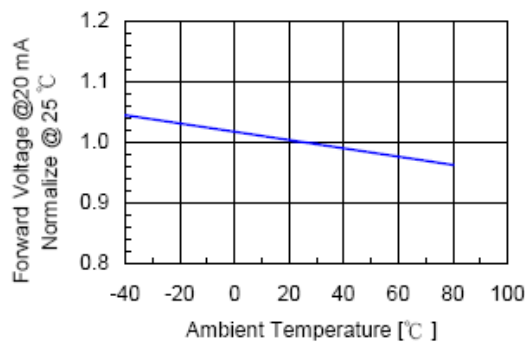


FIG. 4 Relative Intensity Vs. Temperature

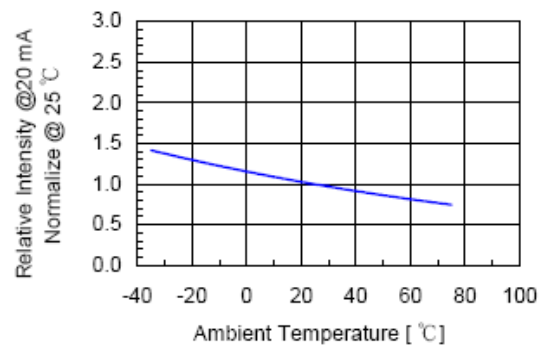


FIG. 5 Relative Intensity Vs. Wavelength

