## **FEL-BG1WXTWC** Range

## **1W Triple LED Lighting Strip**

### **Features**

- Three 1 watt XLamps per strip
- MCPCB mounted package
- On-board 350 mA fixed current circuitry
- Supply 13.2 VDC

- Unit connected via 2 pin connector
- Class II ESD Rating (HBM per Mil-Std-883D)
- Water clear lens
- RoHS compliant Lead free



### Electro/Optical Characteristics White Lamp $T_a = 25^{\circ}C$

Part Number	Emitting	Die	Colour Temperature		Supply	Luminous Flux	Viewing ∠
Fait Number	Colour	Material	min	max	Voltage	typical	201/2
FEL-BG1WWTWC	White	InGaN/SiC	5000	10000	13.2 ±5%	52	100
Units		1 10	°K		VDC	lm / LED	deg

### Electro/Optical Characteristics Coloured Lamps $T_a = 25$ °C

Part Number	Emitting Die	Die	Wavelength Dom. λ <sub>d</sub>		Supply	Luminous Flux	Viewing ∠
Colou	Colour	olour Material	min	max	Voltage	typical	201/2
FEL-BG1WRTWC	Red	AlGalnP	620	635	13.2 ±5%	40	100
FEL-BG1WRDOTWC	Red orange	AlGalnP	610	620	13.2 ±5%	49	100
FEL-BG1WYTWC	Amber	AlGalnP	585	595	13.2 ±5%	42	100
FEL-BG1WGTWC	Green	InGaN/SiC	520	535	13.2 ±5%	52	100
FEL-BG1WCTWC	Cyan	InGaN/SiC	500	510	13.2 ±5%	45	100
FEL-BG1WBTWC	Blue	InGaN/SiC	465	475	13.2 ±5%	19	100
FEL-BG1WROYTWC	Royal blue	InGaN/SiC	455	465	13.2 ±5%	255 mW	100
Units				n <mark>m</mark>	VDC	lm / LED	deg

### Maximum Ratings $T_a = 25^{\circ}C$

Characteristic	Symbol	Rating	Units
LED Junction Temperature		125	°C
Operating Temperature	T <sub>opr</sub>	- 20 to + 80	°C
Storage Temperature	T <sub>stg</sub>	- 20 to + 100	°C

It is the responsibility of the customer to verify the suitability of the product for the application.

#### Notes:

Industry standard procedures regarding static must be observed when handling product with InGaN/SiC die.

Consideration must be given to thermal design such that the maximum LED junction temperature is not exceeded.

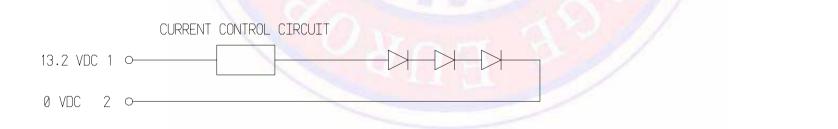
Female connector (not supplied) JST part PHR-2 Connector crimps JST part SPH-002T-PO.5S suitable for 24-30 AWG wire.

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## **Connection Diagram**





Colour	White
Die Material	InGaN/SiC
Test Current I <sub>F</sub>	350 mA
Test Temperature	25°C

### **Note**

Information is collated from testing carried out in the Forge Europa laboratory using its custom-built automated LED test and measurement system. This unique facility measures the total luminous flux of discrete LEDs with great precision.

This information provided by the Life Test Laboratory gives vital data for any design team committed to total quality.

Forge Europa operates a policy of continuous development and reserves the right to make changes and improvements without prior notice.

# Intensity variation over test duration

