



BriLux 1W Light Source

BTP-187XXCQ-XX-XX

Absolute Maximum Ratings at $T_a=25^{\circ}\text{C}$

Parameter	Red/Yellow	White/Blue
DC Forward Current (mA) ^[1]	300	350
Peak Pulsed Forward Current (mA)	350	500
Average Forward Current (mA)	300	300
Reverse Voltage (V)	5	5
LED Junction Temperature ($^{\circ}\text{C}$) ^[3]	120	120
Thermal Resistance without heatsink ($^{\circ}\text{C}/\text{W}$)	80	80
Storage Temperature ($^{\circ}\text{C}$)	-20 to +80	-20 to +80
Operating Temperature ($^{\circ}\text{C}$)	-10 to +70	-10 to +70

Application Notes:

1. Proper forward current must be observed to maintain the junction temperature below maximum rating
2. Although all products listed are class one ESD protection (+/- 1KV by HBM mode), care must be fully taken when handling products
3. Specification is subjected to change for improvements without notice.



WARNING

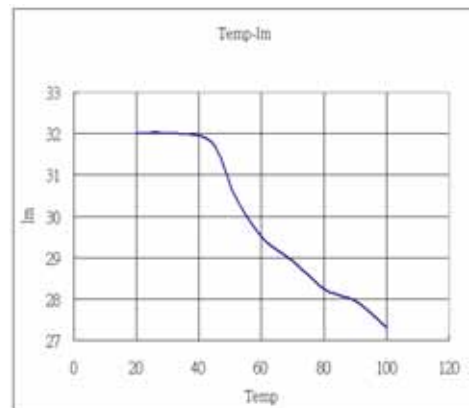
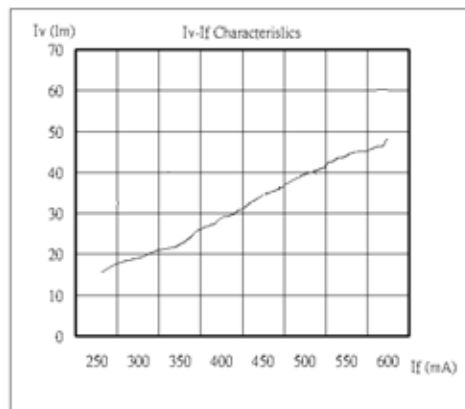
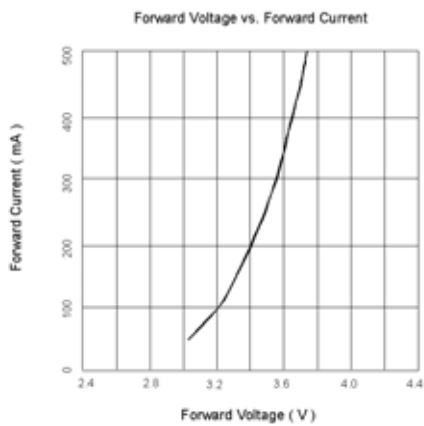
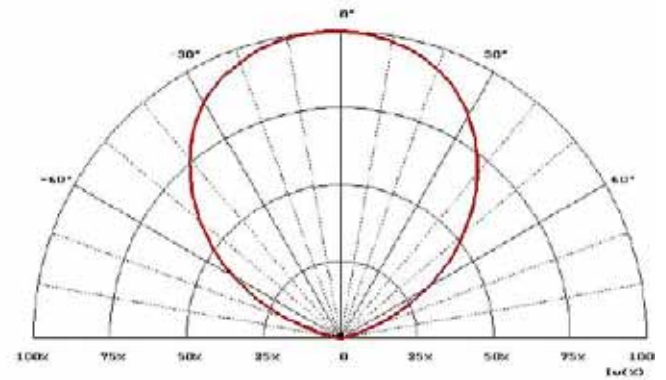
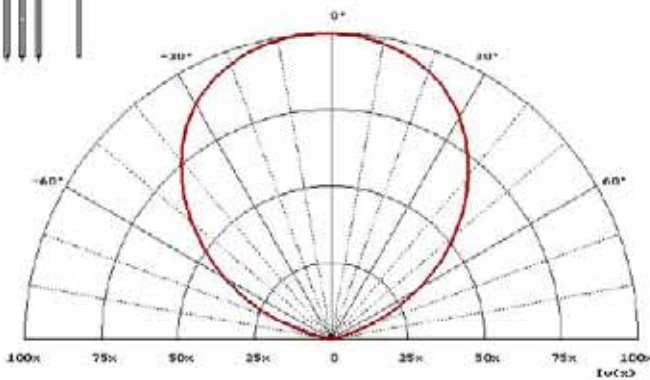
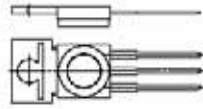
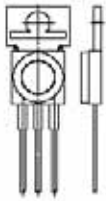
This range of LEDs is produced with die having a high radiant flux. Care must be taken when viewing the product at close range as the light may be intense enough to cause damage to the human eye.

Note: Industry standard procedures regarding static must be observed when handling this product.

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Typical Electro-Optical Characteristics Curves at $T_a=25^\circ\text{C}$





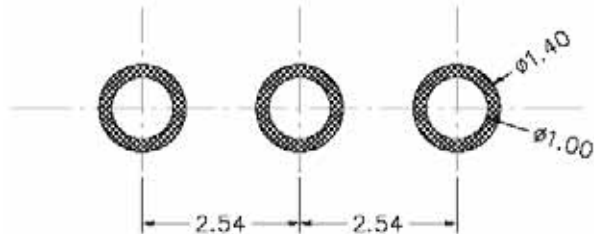
DB LECTRO
COMPOSANTS ÉLECTRONIQUES
ELECTRONIC COMPONENTS



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Recommended Soldering Pattern



Unit: mm

Important Notes:

- The information contained herein is presented only as a Guide for the application of our products. Brilliance Technologies assumes no responsibility for any infringement of intellectual property or other rights of the third parties which may result from its use.
- Brilliance Technologies continually improves the quality of our products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsible of the customer, when using Brilliance Technologies products, to comply with the standard of safety in making a safe design for the entire system, and to avoid situations in which a malfunction or failure of such Brilliance Technologies products cause loss of human life, bodily injury or damage to property.
- Brilliance Technologies products listed in this data sheet are intended for usage in general electronics and/or non-commercial or industrial lighting products. These products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury.
- In developing your design, please ensure that Brilliance Technologies products are used within specified operating ranges as set forth in the most recent Brilliance Technologies data sheets.

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Specifications are subject to change for improvement without notice.

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