BRIGHT LED ELECTRONICS CORP.
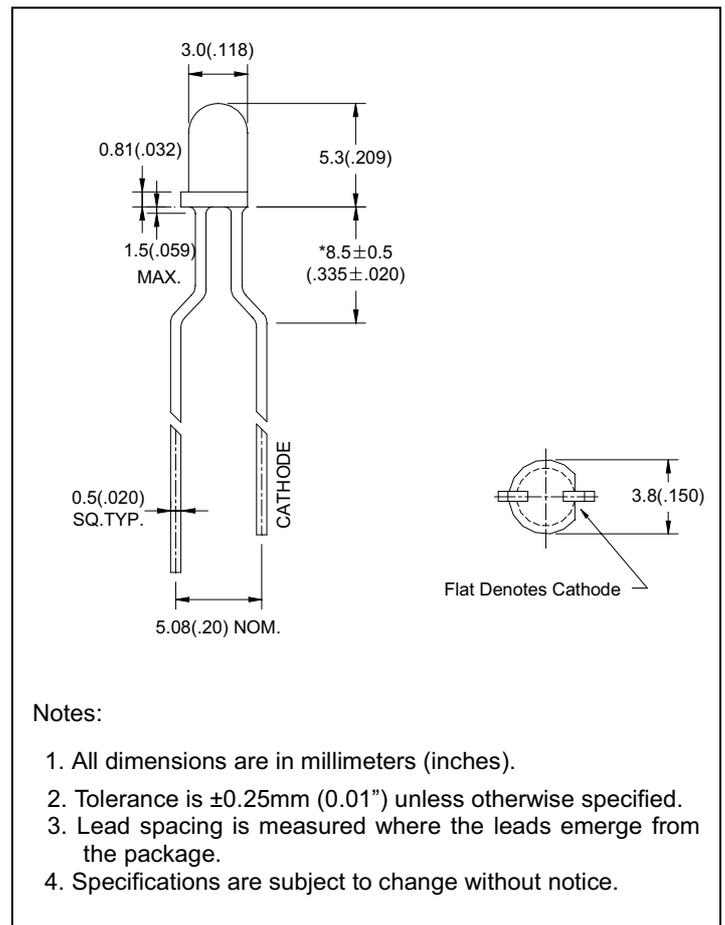
BL-B5141-FA8.5-TBF26C

● **Features:**

1. Chip material: GaP/GaP
2. Emitted color : Bright Red
3. Lens Appearance : Red Diffused
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 3mm diameter package

● **Package dimensions:**

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25mm (0.01") unless otherwise specified.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

● **Applications:**

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● **Absolute Maximum Ratings(Ta=25℃)**

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	40	mW
Forward Current	I_F	15	mA
Peak Forward Current*[1]	I_{FP}	50	mA
Reverse Voltage	V_R	5	V
Operating Temperature	Topr	-40℃~80℃	
Storage Temperature	Tstg	-40℃~85℃	
Soldering Temperature	Tsol	260℃(for 5 seconds)	

*[1]Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

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● **Electrical and optical characteristics(Ta=25℃)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=20mA	-	2.3	2.6	V
Luminous Intensity	Iv	IF=20mA	-	4.0	-	mcd
Reverse Current	IR	VR=5V	-	-	100	μA
Peak Wave Length	λ p	IF=20mA	-	700	-	nm
Dominant Wave Length	λ d	IF=20mA	-	650	-	nm
Spectral Line Half-width	$\Delta\lambda$	IF=20mA	-	100	-	nm
Viewing Angle	2θ1/2	IF=20mA	-	35	-	deg

● **Typical Electro-Optical Characteristics Curves**
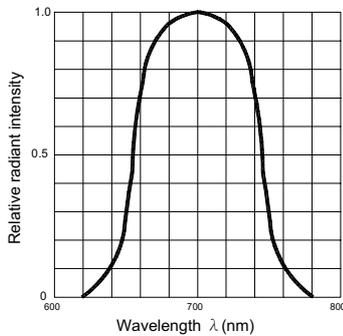
Fig.1 Relative intensity vs. Wavelength

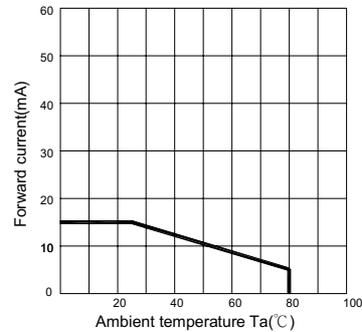Fig.2 Forward current derating curve vs. Ambient temperature

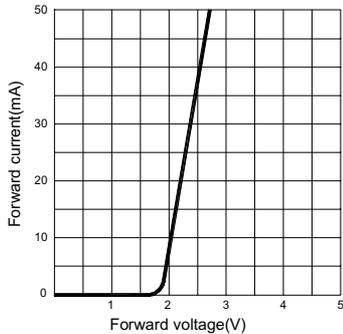Fig.3 Forward current vs. Forward voltage
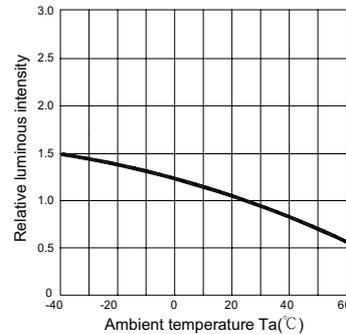
Fig.4 Relative luminous intensity vs. Ambient temperature

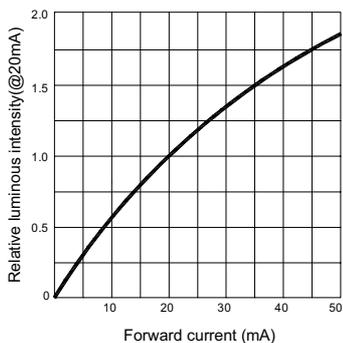Fig.5 Relative luminous intensity vs. Forward current

Fig.6 Radiation diagram

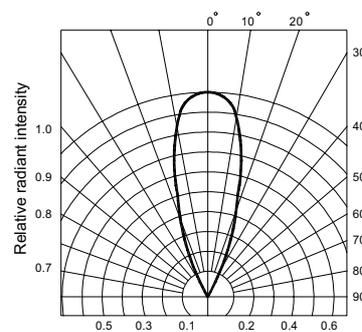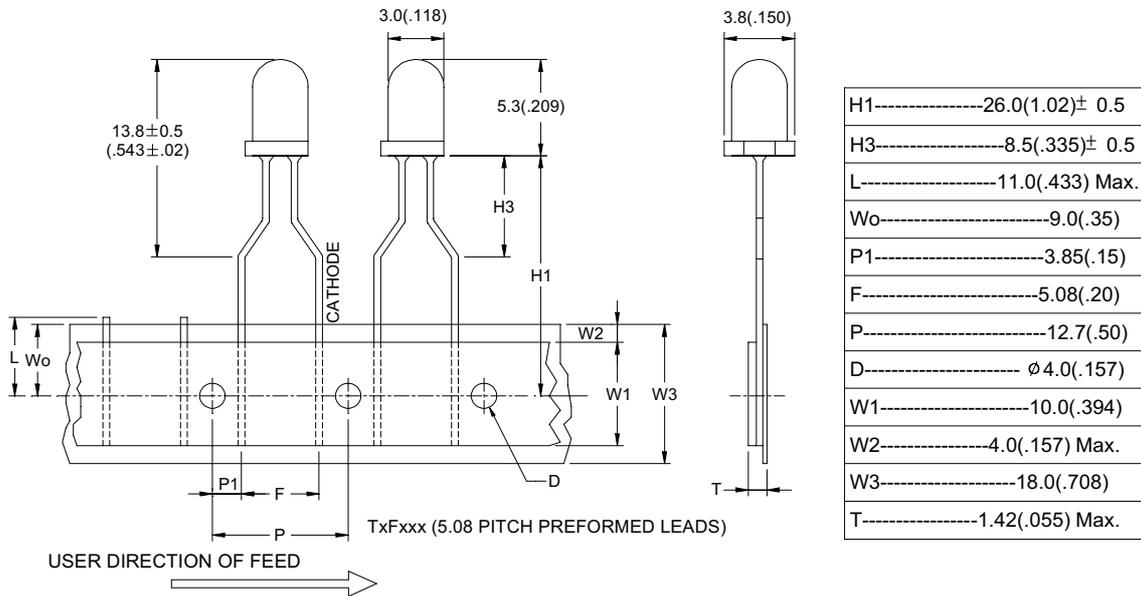● **Tapping and packaging specifications(Units: mm)**

3.0(.118)

3.8(.150)

13.8±0.5
(.543±.02)

5.3(.209)

H3

H1

CATHODE

L Wo

W2

W1 W3

P1 F

D

P

T

TxFxxx (5.08 PITCH PREFORMED LEADS)

USER DIRECTION OF FEED

H1	26.0(1.02)± 0.5
H3	8.5(.335)± 0.5
L	11.0(.433) Max.
Wo	9.0(.35)
P1	3.85(.15)
F	5.08(.20)
P	12.7(.50)
D	Ø4.0(.157)
W1	10.0(.394)
W2	4.0(.157) Max.
W3	18.0(.708)
T	1.42(.055) Max.

Notes: 1.All dimensions are in millimeter (inch).

2.Tolerance is ±0.25mm (0.01") unless otherwise specified.

3.Lead spacing is measured where the leads emerge from the package.

4.The stopper is used as the tie bar.

● **Bin Limits**

1. Intensity Bin Limits (At I_F= 20mA)

Bin Code	Min. (mcd)	Max. (mcd)
:	:	:
E	1.4	2.8
F	2.1	4.2
G	3.2	6.3
H	4.8	9.4
J	7.0	14.0
:	:	:

● Bin：x

Intensity bin code