



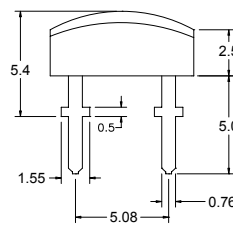
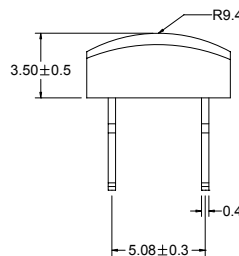
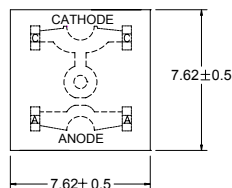
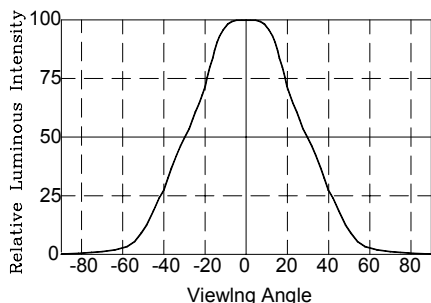
BVZ-925WI4

SUPER FLUX LED PACKAGE CONFIGURATION

DESCRIPTION

Dice Material : GaN Blue
Light Color : White Color
Lens Color : Water Transparent

RADIATION PATTERN



Tolerance ± 0.25 mm

ABSOLUTE MAXIMUM RATINGS AT Ta = 25 °C

PARAMETER	MAX.	UNIT
Power Dissipation (Pd)	120	mW
Continuous Forward Current (If)	30	mA
Peak Forward Current (1/10 Duty Cycle , 0.1ms Pulse Width) (IFP)	100	mA
Reverse Voltage (VR)	5	V
Derating Linear From 25 °C	0.4	mA/°C
Operating Temperature Range (Topr)	-30 °C to + 80 °C	
Storage Temperature Range (Tstg)	-40 °C to + 100 °C	
Lead Solder Temperature 1.6 mm Below Package 260 °C for 5 seconds (Tslid)		

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25 °C

SYMBOL	PARAMETER	TEST COND.	MIN.	TYP.	MAX.	UNIT
V _F	Forward Voltage	I _F = 30 mA		3.2	4.0	V
I _R	Reverse Current	V _R = 5V			10	μA
2θ _{1/2}	Viewing Angle	I _F = 30 mA		60		Deg
I _v	Luminous Intensity	I _F = 30 mA	2.8	4.15		lm

BIN GRADE LIMITS (IF=30 mA) Total Flux / lm

Bin	F	G	H	I
Min.	2.8	3.6	4.7	6.0
Max.	3.6	4.7	6.0	7.8

Tolerance ± 15%lm

Please contact our sales department for more information.

BIN GRADE LIMITS (IF=30 mA) CHROMATICITY COORDINATESL

WA1	x	0.260	0.260	0.275	0.275	WC1	x	0.320	0.320	0.335	0.335
	y	0.240	0.280	0.300	0.260		y	0.330	0.370	0.390	0.350
WA2	x	0.275	0.275	0.290	0.290	WC2	x	0.335	0.335	0.350	0.350
	y	0.260	0.300	0.320	0.280		y	0.350	0.390	0.410	0.370
WB1	x	0.290	0.290	0.305	0.305	WD1	x	0.350	0.350	0.365	0.365
	y	0.280	0.320	0.345	0.305		y	0.370	0.410	0.430	0.390
WB2	x	0.305	0.305	0.320	0.320	WD2	x	0.365	0.365	0.380	0.380
	y	0.305	0.345	0.370	0.330		y	0.390	0.430	0.450	0.410

Please contact our sales department for more information.

Tolerance ± 0.012

*Bright View reserves the rights to alter specifications and remove availability of products at any time without notice.

*Dominant Wavelength, λ_d is according to CIE Chromaticity Diagram base on color of lamps.

*θ_{1/2} is the off-axis angle where the luminous intensity is one half the on-axis intensity.

*These products are sensitive to static electricity. Caution must be taken strictly to avoid static electricity.



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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

FIG. 1 Forward Current vs. Forward Voltage
($T_a = 25^\circ\text{C}$)

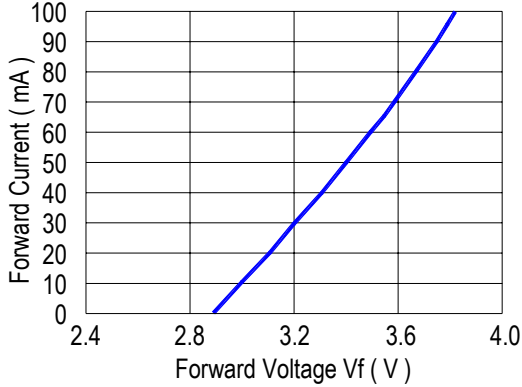


FIG. 2 Relative Total Flux vs. Forward Current
($T_a = 25^\circ\text{C}$)

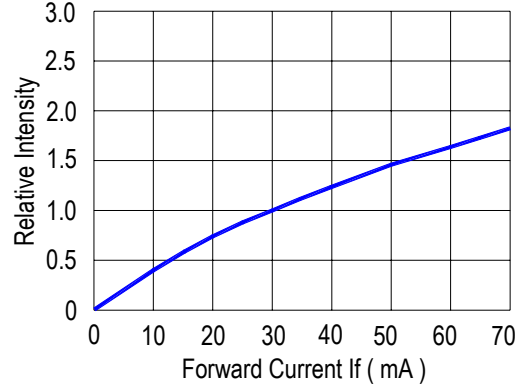


FIG. 3 Forward Voltage vs. Temperature

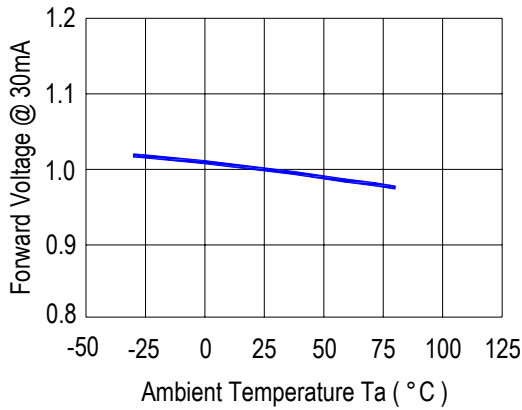


FIG. 4 Relative Intensity vs. Temperature

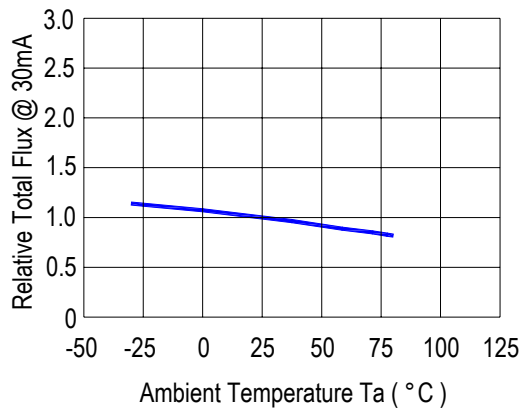


FIG. 5 Relative Intensity vs. Wavelength (λ_p)
($T_a = 25^\circ\text{C}$)

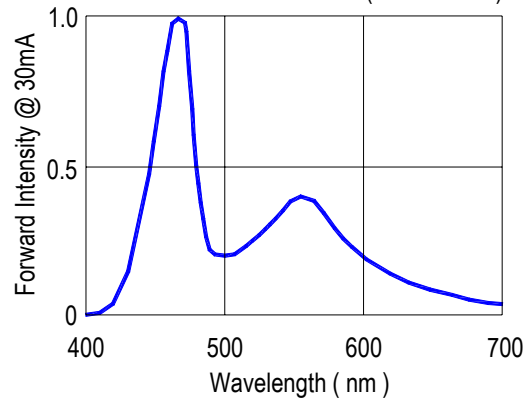
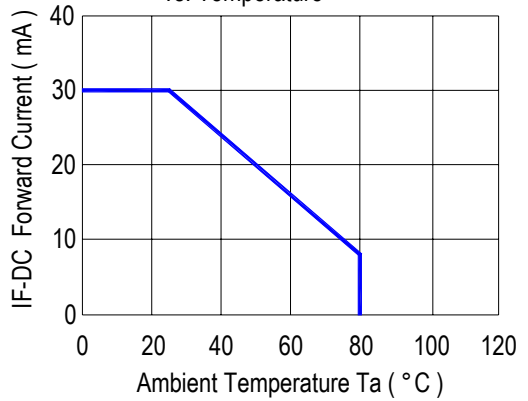


FIG. 6 Maximum Forward Current
vs. Temperature





BVZ-925WI4

CAUTION FOR CLASS 1 ESD (MACHINE MODE)

Gallium Nitride (GaN) based light emitting diodes (LEDs) are extremely sensitive to electrostatic discharge (ESD). Users are strongly recommended to take necessary meter to test the static and avoid ESD when handing these products.

Bright View's BA, GN, WI series products are GaN based materials and are classified as "Class 1", (ESD endurance 50V or lower), any manufacturing site or workstation where GaN devices are handled should be rated and controlled at 50V or below.

Proper grounding of products or machines (via $1M\Omega$), using static dissipative mats, static dissipative containers, static dissipative working uniforms and shoes are considered to be effective against ESD.

An ionizer is recommended in the facility or environment where ESD may be generated easily, and soldering iron with a grounded tip is also recommended.

To install a protection device in the LED circuit to ensure the surge current and voltage not exceeding the max rating during on/off swithing.

When inspecting the final products in which LEDs are assembled, it is recommended to check whether the assembled LEDs are damaged by ESD or not. It is simple to find damaged LEDs by light-on or a VF test at lower current (below 1mA is recommended).

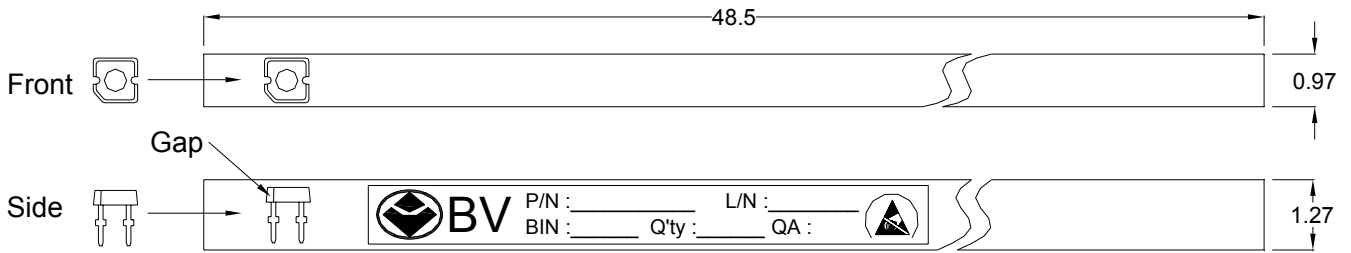
ESD damaged LEDs will show some unusual characteristics such as the remarkable increasing of leak current, the forward voltage become lower, or the LEDs do not light on at the low current.



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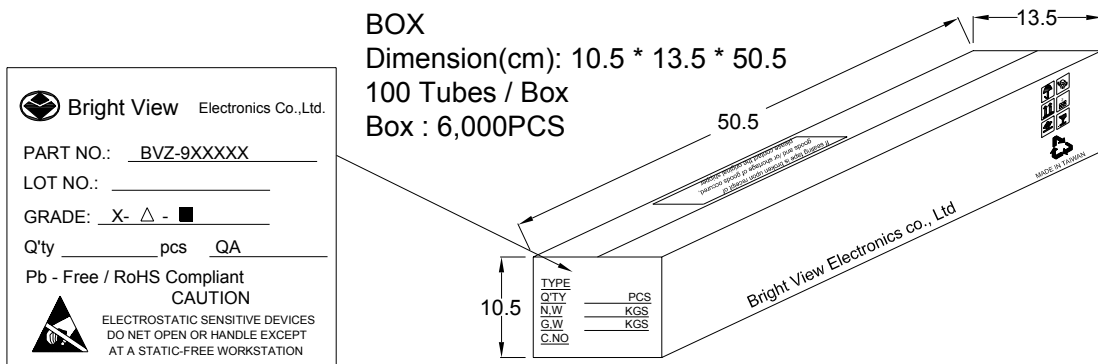
■ **Packaging :**

■ **Package Carrier Tape Dimensions :**



Tube
Dimension(cm): 1.27* 0.97* 48.5
60PCS / Tube

■ **Package Reel Dimensions :**



BOX
Dimension(cm): 10.5 * 13.5 * 50.5
100 Tubes / Box
Box : 6,000PCS

Bright View Electronics Co.,Ltd.

PART NO.: BVZ-9XXXXX

LOT NO.: _____

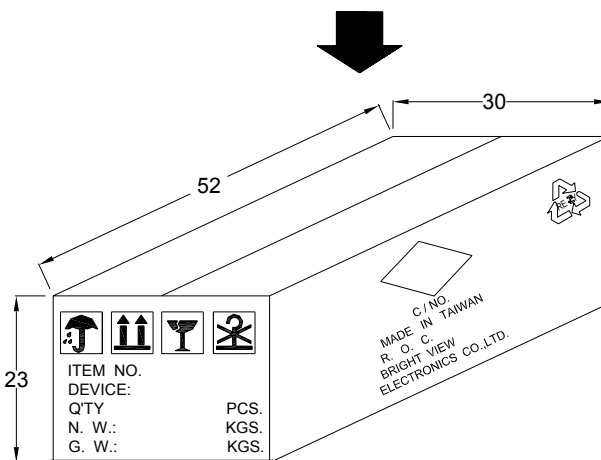
GRADE: X- △ - ■

Q'ty _____ pcs QA _____

Pb - Free / RoHS Compliant
CAUTION
ELECTROSTATIC SENSITIVE DEVICES
DO NOT OPEN OR HANDLE EXCEPT
AT A STATIC-FREE WORKSTATION

X: Bin grade
△ : Wavelength
■ : Vf

CARTON
Dimension(cm): 23*30*52



4 Boxes / Carton
Total : 24,000PCS