

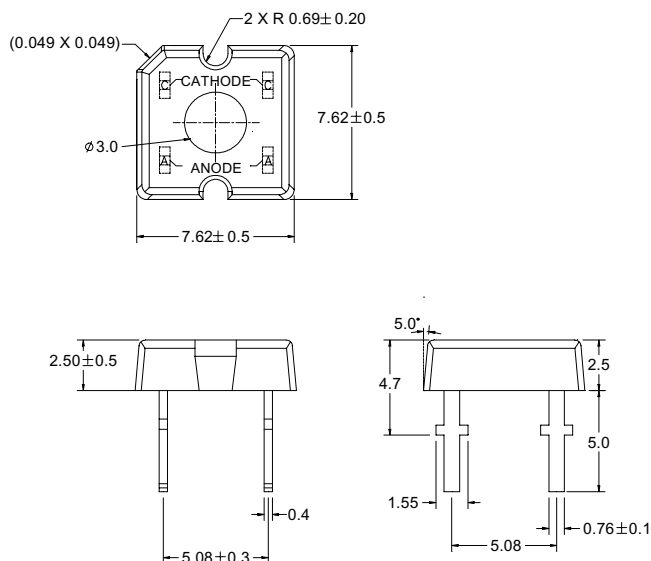


BVZ-915 SERIES

PACKAGE CONFIGURATION

DESCRIPTION

Part Number	Dice Material	Light Color	Lens Color
BVZ-915BC4	InGaN	Blue	Water Transparent
BVZ-915GC4	InGaN	Bluish Green	
BVZ-915GS4	InGaN	Green	
BVZ-915TH4	AlInGaP/GaAs	Yellow	
BVZ-915TH4H	AlInGaP/GaAs	Yellow	
BVZ-915TT4	AlInGaP/GaP	Yellow	
BVZ-915QH4	AlInGaP/GaAs	Orange Red	
BVZ-915QH4H	AlInGaP/GaAs	Orange Red	
BVZ-915QT4	AlInGaP/GaP	Orange Red	
BVZ-915W4	InGaN	White	



Tolerance ± 0.25 mm

ABSOLUTE MAXIMUM RATINGS AT Ta = 25 °C

PARAMETER	DEVICE TYPE				UNIT
	BVZ-915QH4H BVZ-915TH4H	BVZ-915QT4 BVZ-915TT4	BVZ-915QH4 BVZ-915TH4	BVZ-915GS4 BVZ-915GC4 BVZ-915BC4 BVZ-915W4	
Power Dissipation	150	182	120	140	mW
Continuous Forward Current	70	70	50	40	mA
LED Junction Temperature	125	125	125	125	°C
Reverse Voltage (IR=100 μ A)	10	10	10	5	V
Operating Temperature Range	-40 to + 100				°C
Storage Temperature Range	-55 to + 100				°C
Soldering Temperature	260 °C for 5 seconds				

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta = 25 °C

PART NUMBER	@IF=mA	V F (V)			ϕ V (mlm)		2 θ 1/2 (Deg)	R θ J-PIN (°C/W)	R θ J-A (°C/W)	I R (μ A)		@IF=20mA	
		MIN.	TYP.	MAX.	MIN.	TYP.				@VR=V	TYP.	λ p(nm)	λ d(nm)
BVZ-915BC4	40	3	3.7	5.2	100	300	100	90	180	10	100	468	470
BVZ-915GC4	40	3	3.7	5.2	100	400	100	90	180	10	100	502	505
BVZ-915GS4	40	3	3.7	5.2	100	500	100	90	180	10	100	523	525
BVZ-915TH4	50	1.83	2.15	2.79	100	600	100	120	250	20	100	592	590
BVZ-915TH4H	70	1.83	2.2	2.79	600	1200	100	120	250	20	100	592	590
BVZ-915TT4	70	2.07	2.5	3.15	600	2000	100	125	250	20	100	594	592
BVZ-915QH4	50	1.83	2.15	2.79	100	600	100	120	250	20	100	630	625
BVZ-915QH4H	70	1.83	2.2	2.79	600	1200	100	120	250	20	100	630	625
BVZ-915QT4	70	2.07	2.5	3.15	600	2000	100	125	250	20	100	640	630
PART NUMBER	@IF=mA	V F (V)			ϕ V (mlm)		2 θ 1/2 (Deg)	R θ J-PIN (°C/W)	R θ J-A (°C/W)	I R (μ A)		@IF=20mA	
		MIN.	TYP.	MAX.	MIN.	TYP.				@VR=V	TYP.	x	y
BVZ-915W4	40	3	3.7	5.2	600	1500	120	90	180	10	100	0.33	0.31



BVZ-915 SERIES

BIN GRADE LIMITS LUMINOUS FLUX / lm

PART NUMBER		BIN	A	B	C	D	E	F	G	H
BVZ-915TH4H @IF=70mA	Min.		0.6	1.2	1.8	2.4	2.9	3.4	3.9	4.4
BVZ-915TT4 @IF=70mA										
BVZ-915QH4H @IF=70mA										
BVZ-915QT4 @IF=70mA										
BVZ-915TH4 @IF=50mA	Max.		1.2	1.8	2.4	2.9	3.4	3.9	4.4	6.1
BVZ-915QH4 @IF=50mA										
BVZ-915W4 @IF=40mA										
BVZ-915W4U @IF=40mA										

Tolerance ± 0.4 lm

PART NUMBER		BIN	A	B	C	D
BVZ-915BC4 @IF=40mA	Min.		0.1	0.6	1.1	1.6
BVZ-915GC4 @IF=40mA						
BVZ-915GS4 @IF=40mA	Max.		0.6	1.1	1.6	2.1

Tolerance ± 0.3 lm

BIN GRADE LIMITS (I F = 20 mA) DOMINANT WAVELENGTH / nm

PART NUMBER	BIN	1	2	3
BVZ-915BC4	Min.	461	467	473
	Max.	467	473	479
BVZ-915GC4	Min.	497	502	507
	Max.	502	507	512
BVZ-915GS4	Min.	519	526	533
	Max.	526	533	540

Tolerance ± 2 nm

PART NUMBER	BIN	1	2	3
BVZ-915QH4(H)	Min.	611	616	619
BVZ-915QT4	Max.	616	619	631

Tolerance ± 3 nm

PART NUMBER	BIN	1	2	3
BVZ-915TH4(H)	Min.	584	588	592
BVZ-915TT4	Max.	588	592	596

Tolerance ± 1 nm

BIN GRADE LIMITS FORWARD VOLTAGE / V

PART NUMBER		BIN	0	1	2	3	4	5	6	7	8	9
BVZ-915BC4 @IF=40mA	Min.		3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9
BVZ-915GC4 @IF=40mA												
BVZ-915GS4 @IF=40mA	Max.		3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.7	4.9	5.1
BVZ-915W4(U) @IF=40mA												

Tolerance ± 0.1 V

PART NUMBER		BIN	0	1	2	3	4	5	6	7	8	9
BVZ-915TH4H @IF=70mA	Min.		1.89	2.01	2.13	2.25	2.37	2.49	2.61	2.73	2.85	2.97
BVZ-915TT4 @IF=70mA												
BVZ-915QH4H @IF=70mA												
BVZ-915QT4 @IF=70mA												
BVZ-915TH4 @IF=50mA	Max.		2.01	2.13	2.25	2.37	2.49	2.61	2.73	2.85	2.97	3.09
BVZ-915QH4 @IF=50mA												

Tolerance ± 0.06 V

*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.