



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features

- Low power consumption.
- Popular T-1 3/4 diameter package.
- General purpose leads.
- Reliable and rugged.
- Long life - solid state reliability.
- Available on tape and reel.
- RoHS compliant.

Description

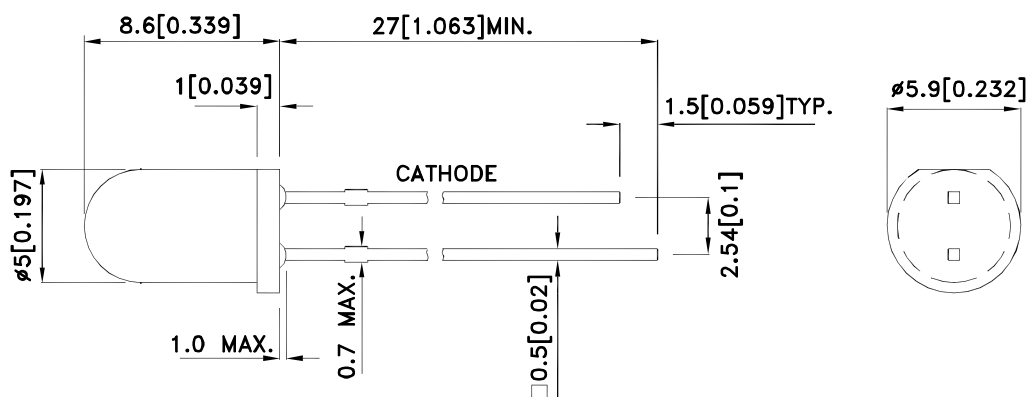
The source color devices are made with InGaN Light Emitting Diode.

Static electricity and surge damage the LEDs.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 (0.01") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
WP7113VRCBC/A	Cyan (InGaN)	WATER CLEAR	3800	7900	20°

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity/ Luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
V _F [1]	Forward Voltage	Cyan	3.3	4.0	V	I _F =20mA
I _R	Reverse Current	Cyan		50	uA	V _R = 5V
x [2]	Chromaticity Coordinates	Cyan	0.19			
y [2]			0.37			
C	Capacitance	Cyan	100		pF	V _F =0V;f=1MHz

Notes:

1. Forward Voltage: +/-0.1V.
2. Measurement tolerance of the chromaticity coordinates is ±0.02.

Absolute Maximum Ratings at TA=25°C

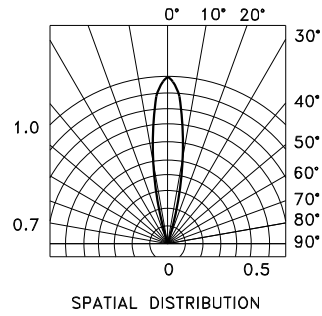
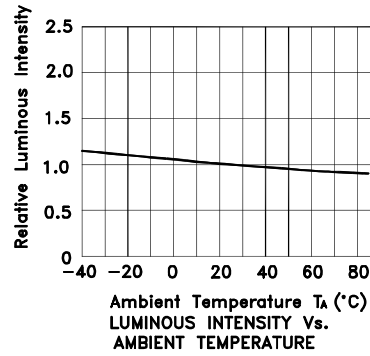
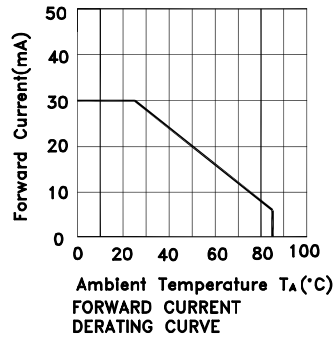
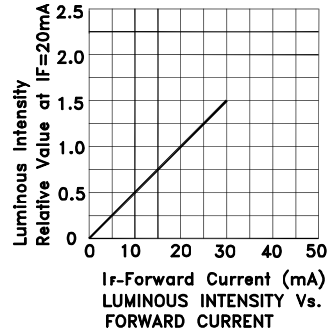
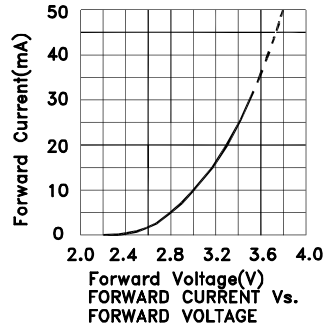
Parameter	Cyan	Units
Power dissipation	120	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

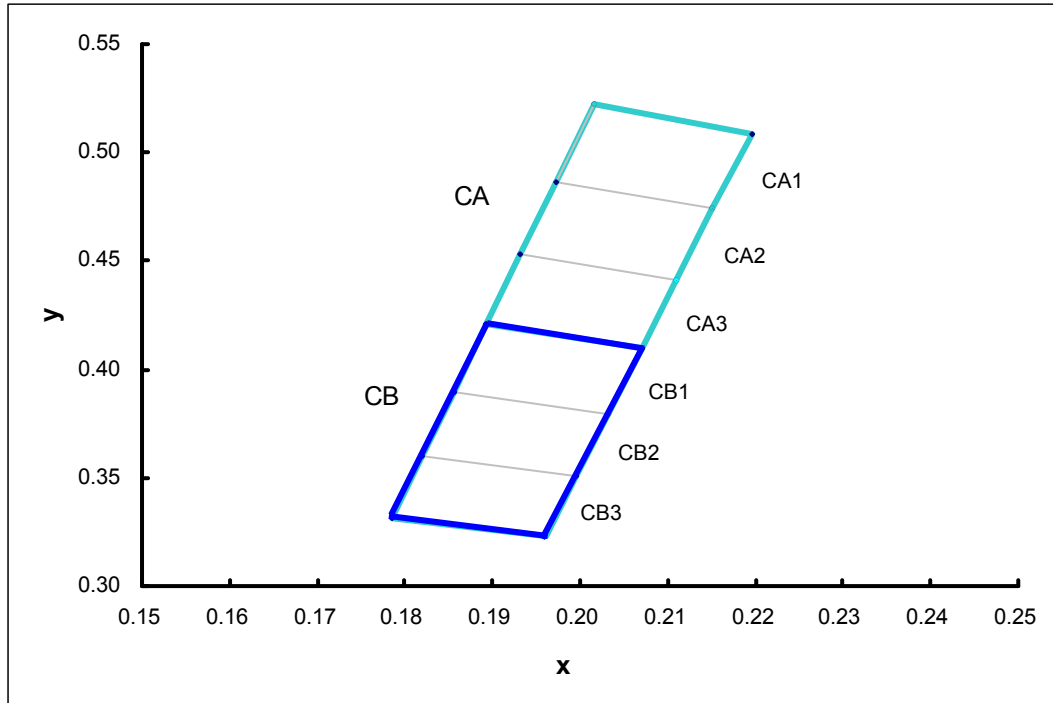
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.

Cyan

WP7113VRCBC/A



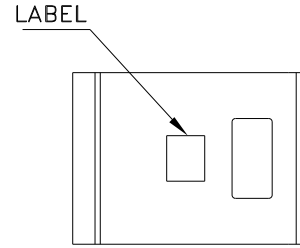
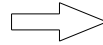
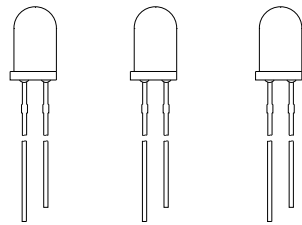


Bin code	x	y	Bin code	x	y
CA1	0.2016	0.5221	CB1	0.1894	0.4206
	0.1973	0.4868		0.1856	0.3897
	0.2152	0.4744		0.2032	0.3794
	0.2195	0.5089		0.2070	0.4097
CA2	0.1973	0.4868	CB2	0.1856	0.3897
	0.1933	0.4530		0.1821	0.3601
	0.2110	0.4413		0.1996	0.3505
CA3	0.2152	0.4744	CB3	0.2032	0.3794
	0.1933	0.4530		0.1821	0.3601
	0.1894	0.4206		0.1786	0.3318
	0.2070	0.4097		0.1961	0.3228
	0.2110	0.4413	0.1996	0.3505	

Notes:
 Shipment may contain more than one chromaticity regions.
 Orders for single chromaticity region are generally not accepted.
 Measurement tolerance of the chromaticity coordinates is ± 0.02 .

PACKING & LABEL SPECIFICATIONS

WP7113VRCBC/A

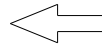


500PCS / BAG

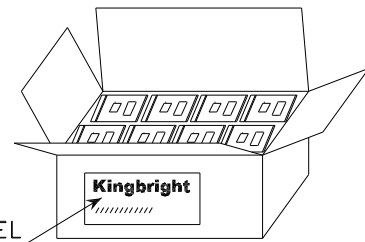


20K / 9# BOX

OUTSIDE LABEL



OUTSIDE LABEL



10K / 5# BOX

<h2 style="margin: 0;">Kingbright</h2>		
P/NO: WP7113xxx		
QTY: 500 pcs	Q.C.	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center; margin-bottom: 2px;">Q C</div> <div style="font-size: 8px; margin-bottom: 2px;">XX XX XXXX</div> <div style="font-weight: bold; font-size: 8px;">PASSED</div> </div>
S/N: XXXX		
CODE: XXX		
LOT NO:		
xxxxxxxxxxxxxxxxxxxxxxxx		
RoHS Compliant		