



**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

W7113UVC

ULTRAVIOLET

### Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.

### Description

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

This device radiates intense ultraviolet (UV) light when operated. Most of the UV light emitted is not visible.

Exposure to UV radiation can be harmful to your health.

Protect your eyes and skin during operation.

Do not look directly at the device during operation.

Exposure to UV light, even for a brief period, can damage your eyes.

Do not operate the device unless you have had proper safety training and take appropriate precautions.

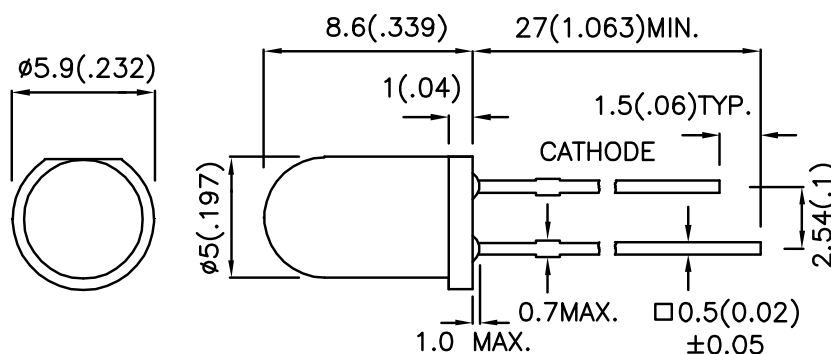
Do not permit children or untrained personnel to operate the device.

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  $\pm 0.25$  (0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2θ1/2
W7113UVC	ULTRAVIOLET ( InGaN )	WATER CLEAR	36	160	20°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at TA=25°C

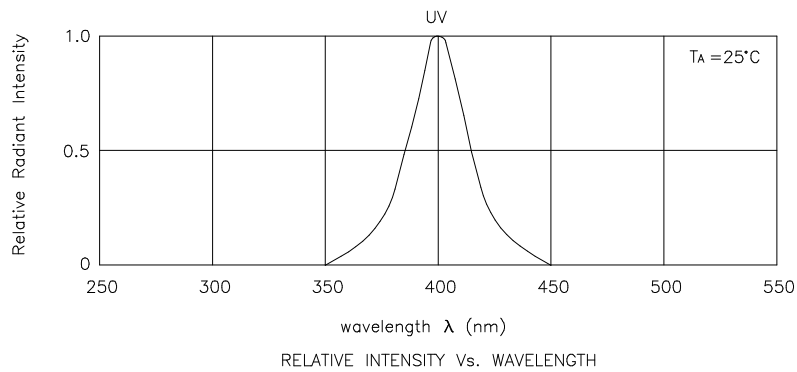
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Ultraviolet	400		nm	IF=20mA
λD	Dominant Wavelength	Ultraviolet	395		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Ultraviolet	26		nm	IF=20mA
C	Capacitance	Ultraviolet	30		pF	VF=0V;f=1MHz
VF	Forward Voltage	Ultraviolet	3.8	4.2	V	IF=20mA
IR	Reverse Current	Ultraviolet		10	uA	VR = 5V

## Absolute Maximum Ratings at TA=25°C

Parameter	Ultraviolet	Units
Power dissipation	100	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 5 Seconds	

Notes:

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



## Ultraviolet

### W7113UVC

