L2523UVC ULTRAVIOLET

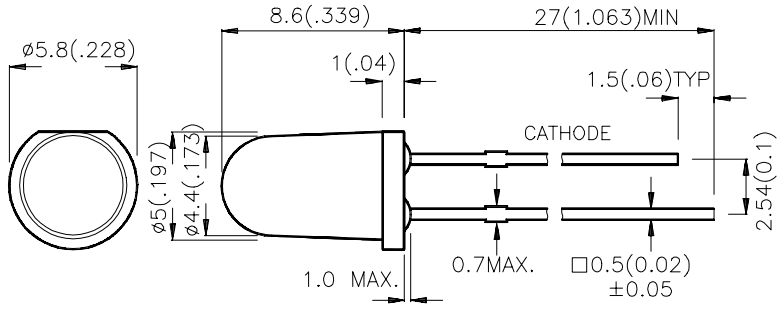
Features

- HIGH PERFORMANCE.
- SUITABLE FOR AUTOMOTIVE DASHBOARD LIGHTING, WHITE LEDS AND BACKLIGHTING.

Description

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

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 lead emerge package.
4. Specifications are subject to change without notice.

Kingbright

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
L2523UVC	ULTRAVIOLET(InGaN)	WATER CLEAR	70	140	12°

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

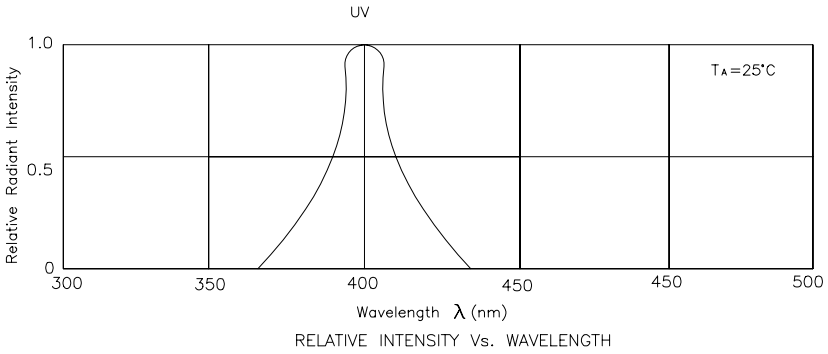
Electrical / Optical Characteristics at T_A=25°C

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

Absolute Maximum Ratings at T_A=25°C

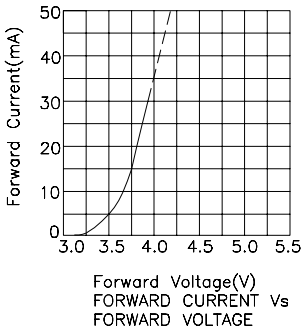
Parameter	Ultraviolet	Units
Power dissipation	100	mW
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

Notes:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.

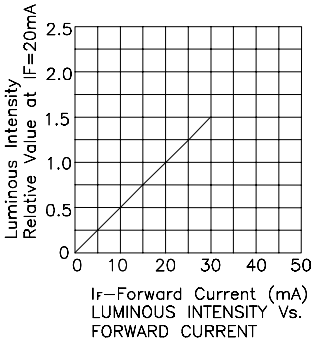


RELATIVE INTENSITY Vs. WAVELENGTH

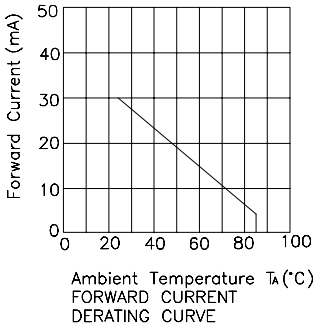
Ultraviolet **L2523UVC**



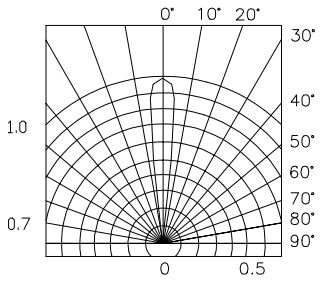
FORWARD CURRENT Vs
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



SPATIAL DISTRIBUTION