

PRODUCT SPECIFICATION

Series Part Number
PLH39CAx-WCU01

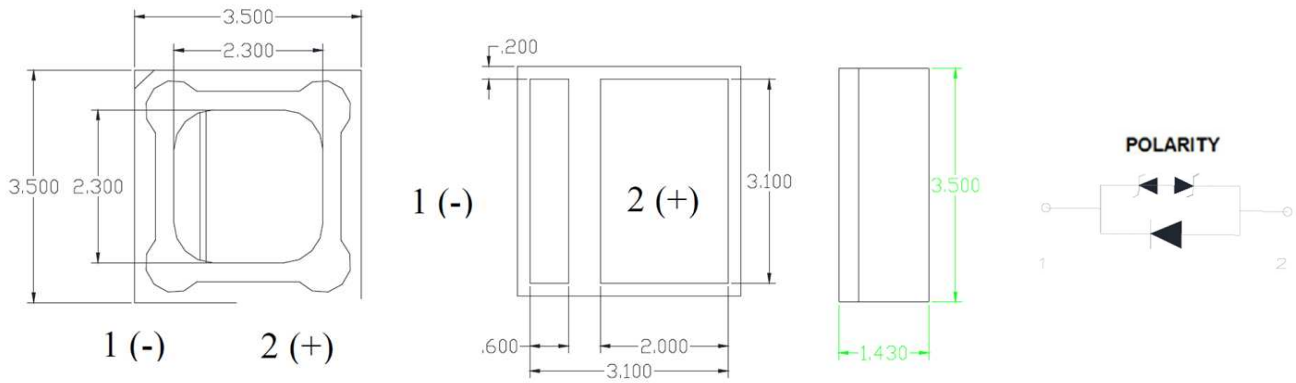
Details

- 3535 UV-C Surface Mount LED
- Optional Optical Quartz Lens
- Max 1000 Piece Reels

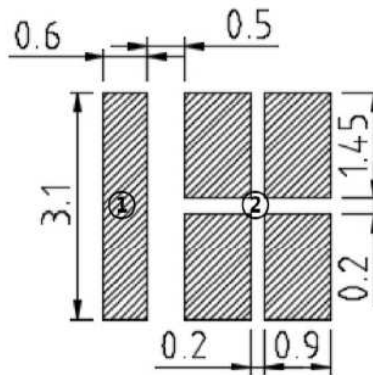
Features

- RoHS & REACH Compliant
- MSL 3 qualified according to J-STD 020
- ESD 8KV

Outline Dimensions



Recommended Soldering Pad Dimensions



Notes:

1. Dimensions in millimeters unless otherwise noted
2. Specifications subject to change without notice



Absolute Maximum Ratings at Ta=25 °C

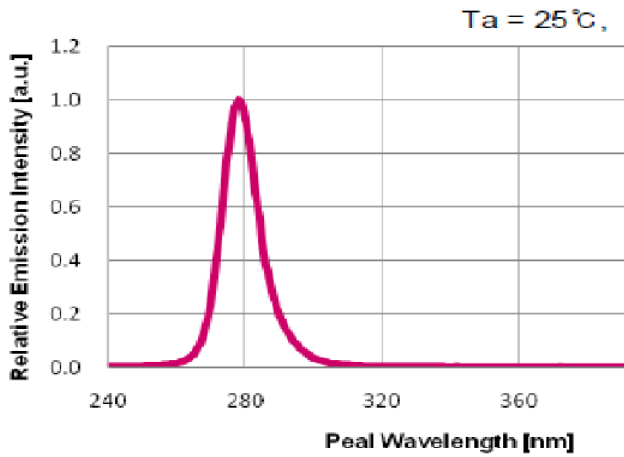
Characteristics	Symbol	Min.	Typ.	Max.	Unit
DC Forward Current	IF	--	15	20	mA
Pulse Current (@1/10 duty)	IP	--	--	25	mA
Forward Voltage	VF	5.0	--	9.0	V
Reverse Voltage	VR	--	-10	--	V
Leakage Current (5V)	IR	--	--	10	μA
Junction Temperature	Tj	--	--	85	°C
Storage Temperature Range	Tstg	-40	--	80	°C
Soldering Temperature	Tsol	--	--	260	°C
Thermal Resistance Junction / Solder Point	RTH	--	45	--	°C/W
Viewing Angle	2θ1/2	--	130	--	Deg

Notes:

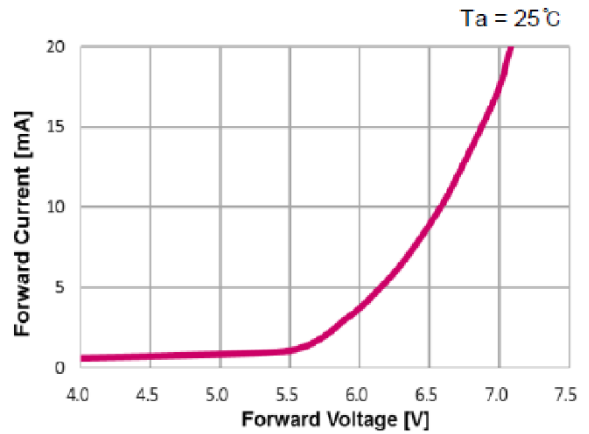
1. When operating at other than ambient temperature, maximum allowable current depends on derating curves.
2. Pulse width = 0.01s & duty factor = 1/10.
3. When operating at maximum allowable current, Tj must be below 85 °C.
4. Viewing angle tolerance is ± 10°.

Typical Electrical / Optical Characteristic Curves

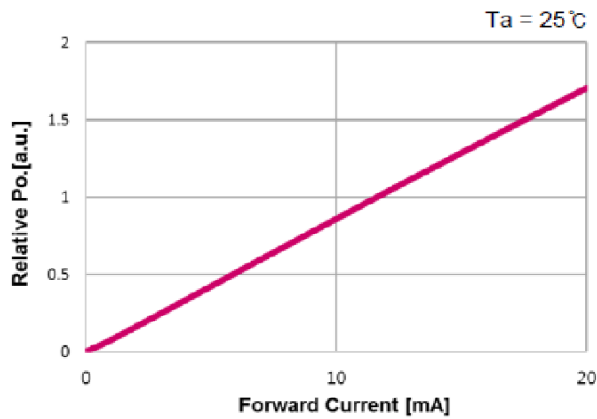
Relative Spectral Power Distribution



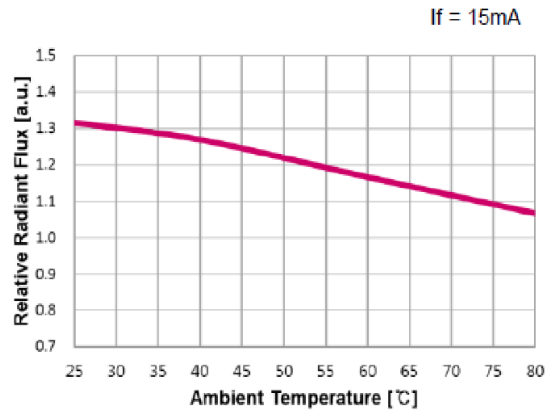
Forward Current vs. Forward Voltage (Ta=25°C)



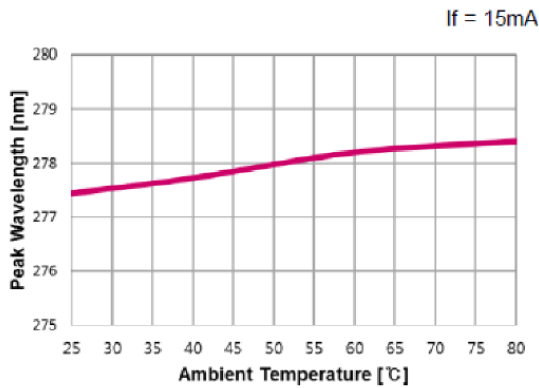
Relative Radiant Flux vs. Forward Current (Ta=25°C)



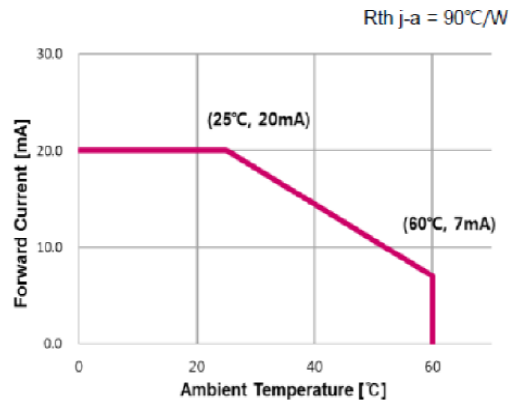
Relative Radiant Flux vs. Ambient Temperature (IF=15mA)



Relative Radiant Flux vs. Peak wavelength



Derating



Forward Voltage Binning

ROWD		WP	
DNDQW	R		D
	A	5.0	6.0
	B	6.0	7.0
	C	7.0	8.0
	D	8.0	9.0

Notes:

1. Binning current is 15 mA

Radiant Flux (Power) Binning

Bin Cofe (15mA)	Oin. Po (mW)	T{p. Po (mW)	Oaz. Po (mW)
P1	1	1.5	2
P2	2	2.5	3
P3	3	3.5	4

Notes:

1. Binning current is 15mA

Peak Wavelength Binning Reference Table

Bin cofe (15mA)	Oin. Wp (nm)	Oaz. Wp (nm)
W280	265.0	285.0

Notes:

1. Peak-wavelength (Wp) tolerance: $\pm 2.0\text{nm}$
2. Testing Current 15mA

Reflow Soldering



Packing



Precautions

Test Items and Results of Reliability

PLH35CA-WCU01 Customer Approval Signatures	Approved By	Checked By	Prepared By

Record of Revisions			
Rev.	Comments	Page	Date
0	Released Spec	--	5/13/20