imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Ultraviolet Emitter

Product No: MTE-H21 Series

Peak Emission Wavelength: 310nm, 325nm, 340nm

The MTE-H21 series UV emitter is a specifically designed for applications requiring high radiant power output and accuracy in a TO-46 hermetically sealed package with a special UV glass lens for optimum life time and device performance. Custom package solutions and sorting are available.

FEATURES

- > Hermetically Sealed TO-46
- > High Reliability
- > Narrow Viewing Angle

- APPLICATIONS
- > UV Curing / Light Therapy
- > Drug Discovery / Optical Sensor
- > DNA / Protein Analysis



Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Forward Current	IF	40	mA
Operating Temperature	Topr	-30 ~ +80	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Soldering Temperature*1	Tsol	300	°C

*1: Within 5 seconds.

ITEMS	SYMBOL	CONDITIONS	MTE310H21-UV	MTE325H21-UV	MTE340H21-UV	UNIT
Peak Wavelength	λρ	IF=20mA	310±5	325±5	340±5	nm
Power Output	PO	IF=20mA	0.6	0.8	0.8	mW
Spectral Line Half Width	Δλ	IF=20mA	10	9	9	nm
Forward Voltage	VF	IF=20mA	6.5	5	4	V
Viewing Angle	20 _{1/2}	IF=20mA	24	24	24	deg
Rise Time*1	Tr		16	20	12	ns
Fall Time*1	Tf		8	9	8	ns

*1: Test Condition: Frequency=100KHz, duty=1%, lfp=200mA

2014-02-01



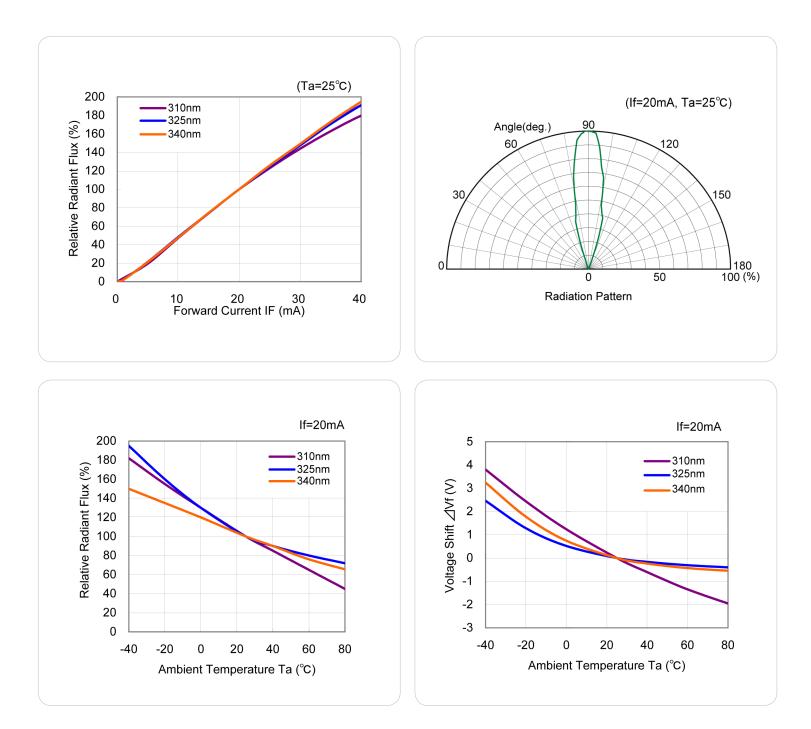
Ultraviolet Emitter Product No: MTE-H21 Series

ITEM MATERIALS GLASS-B GLASS-A **UV-GLASS** 1 2 CAP KOVAR, Ni Plating 3 STEM RING KOVAR, Au Plating 13.5 ± 0.5 6.2±0.4 4 GLASS-B Hard Glass (Black) Anode 5 LEAD KOVAR, Au Plating 2-00,45 4.3±0.4 2.54±0.2 GLASS-A Cathode STEM RING ¢4,64±0,2 ¢5.35±0.2 ¢4.0±0.2 LEAD CAP , Karalan Karalan Karalan 0.45 ± 0.1 (If=20mA, Ta=25°C) (Ta=25°C) 40 100 310nm 310nm 90 325nm 325nm (%) Forward Current IF (mA) 340nm 340nm 80 30 Relative Optical Intensity 70 60 20 50 40 10 30 20 10 0 0 0 1 2 3 4 5 6 7 8 9 10 11 300 320 340 240 260 280 360 380 400 Forward Voltage VF (V) Wavelength (nm)

Unit: mm, Tolerance: ±0.2



Ultraviolet Emitter Product No: MTE-H21 Series



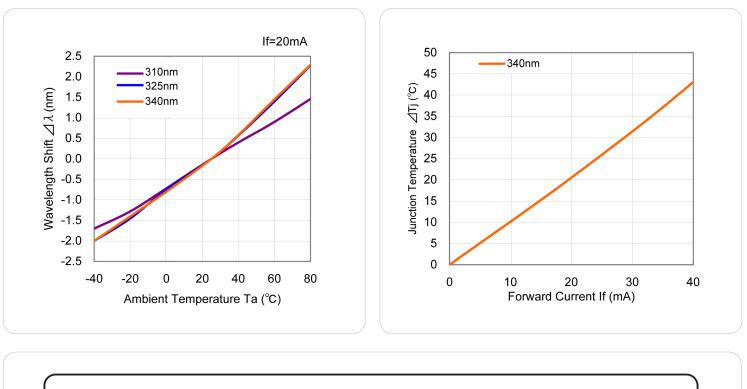
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Ultraviolet Emitter

Product No: MTE-H21 Series





- 1. LEDs emit very strong UV radiation during operation.
- 2. Don't look directly into the LED light when in operation as UV radiation can harm your eyes.
- 3. To prevent even inadequate exposure, wear protective eyewear.
- 4. If LEDs are embedded in devices, please indicate warning labels against the UV LED used.
- 5. Avoid prolonged exposure to skin or other tissue during operation.
- 6. Keep out of reach of children.
- 7. Take appropriate precautions around pets and other living organisms to avoid UV exposure.
- 8. Specification and dimension are subject to change without notice.

The information contained herein is subject to change without notice.

2014-02-01