Marktech Optoelectronics

Ultraviolet Emitter

Product No: **MTE3250KSCL-UV**

Peak Emission Wavelength: 325nm

The MTE3250KSCL-UV UV emitter is a specifically designed for applications requiring high radiant power output and accuracy in a TO-39 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-39
> High Reliability
> Wide 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

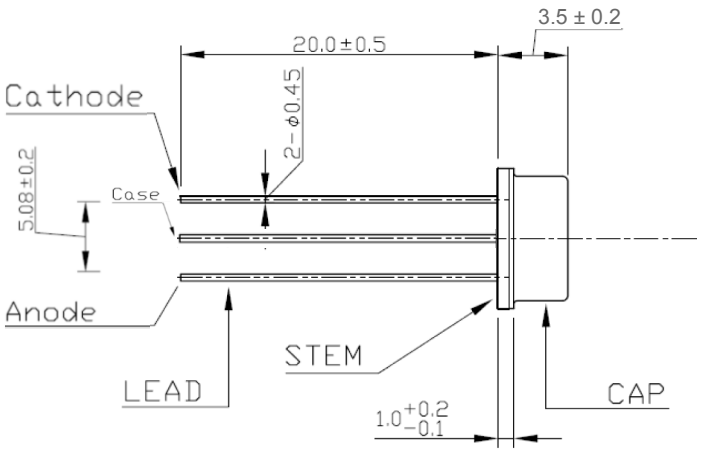
*1: Within 5 seconds.

Electrical & Optical Characteristics (Ta = 25°C)

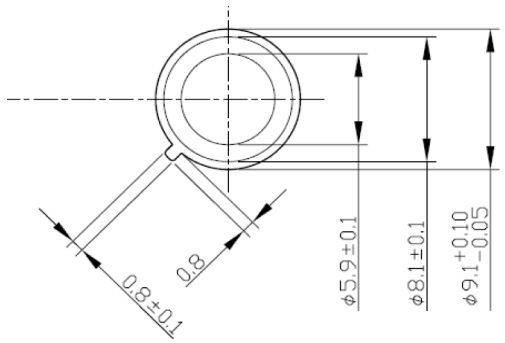
ITEMS	SYMBOL	CONDITIONS	MIN.	TYP	MAX.	UNIT
Peak Wavelength	λp	IF=20mA	--	325	--	nm
Power Output	PO	IF=20mA	--	1.0	--	mW
Spectral Line Half Width	Δλ	IF=20mA	--	15	--	nm
Forward Voltage	VF	IF=20mA	--	4.15	--	V
Half Intensity Beam Angle	Θ	IF=20mA	--	7	--	deg

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

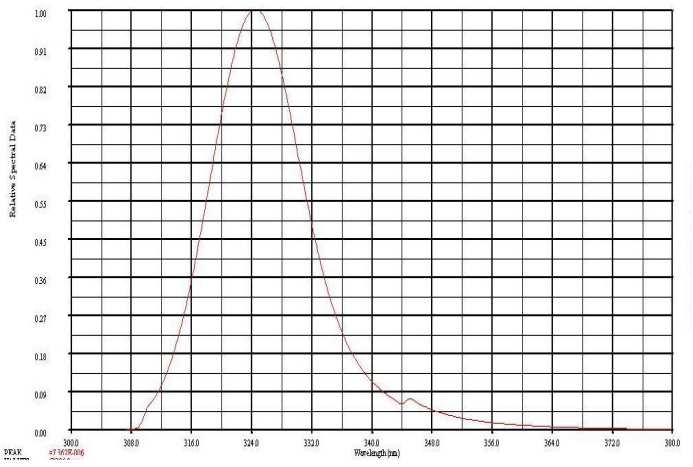
2014-02-01



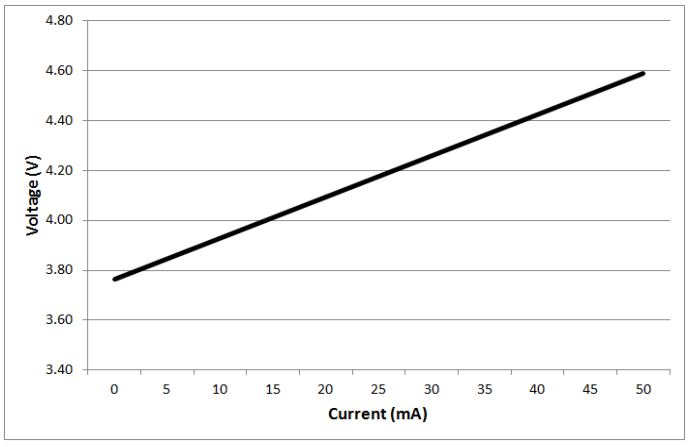
	ITEM	MATERIALS
1	GLASS	UV-GLASS
2	CAP	KOVAR, Ni Plating
3	STEM	SPCE, Au Plating
4	LEAD	Fe-Ni alloy, Au Plating



SPECTRAL OUTPUT



FORWARD I-V CHARACTERISTICS



Unit: mm, Tolerance: ±0.2

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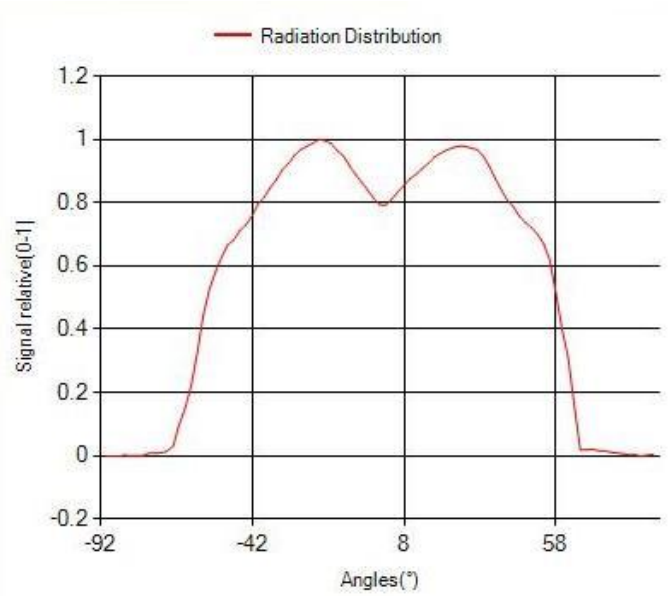
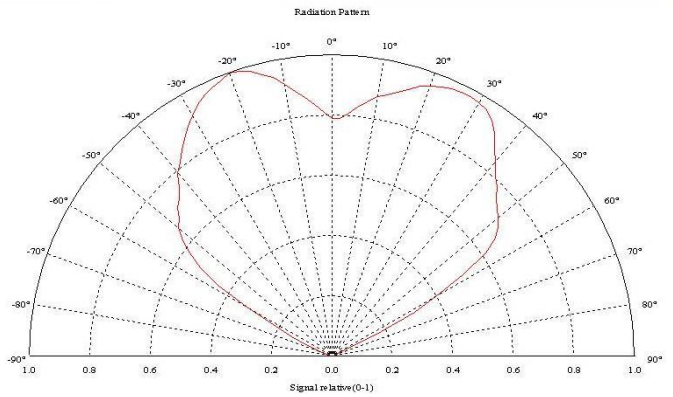


VIEW ANGLE



(If=20mA, Ta=25℃)

⚠ CAUTION

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.

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