

Peak Emission Wavelength: 340nm

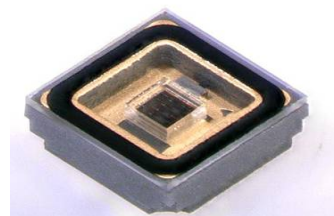
The MTSM340UV-F3120 UV emitter is specifically designed for applications requiring high radiant power output and accuracy in a 3.5 x 3.5mm Metal Sealed SMD Flat Top Type package. Custom package solutions and sorting are available.

FEATURES

- > 3.5 x 3.5mm SMD Type Package
- > **High Reliability**
- > Wide **Viewing Angle**

APPLICATIONS

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



Electrical & Optical Characteristics (IF=350mA, Ta=25°C)



ITEMS	SYMBOL	MIN	TYP	MAX	UNIT
Peak Wavelength (*)	λ_p	335	340	345	nm
Radiant Flux (**)	Po	70	90	--	mW
Spectral Line Half Width	$\Delta\lambda$	--	--	10	nm
Forward Voltage	VF	3.8	--	5.5	V
Viewing Angle	$2\theta_{1/2}$	--	120	--	deg

(*)Peak Wavelength Measurement tolerance is ± 3 nm. (**)Radiant Flux Measurement tolerance is $\pm 10\%$.

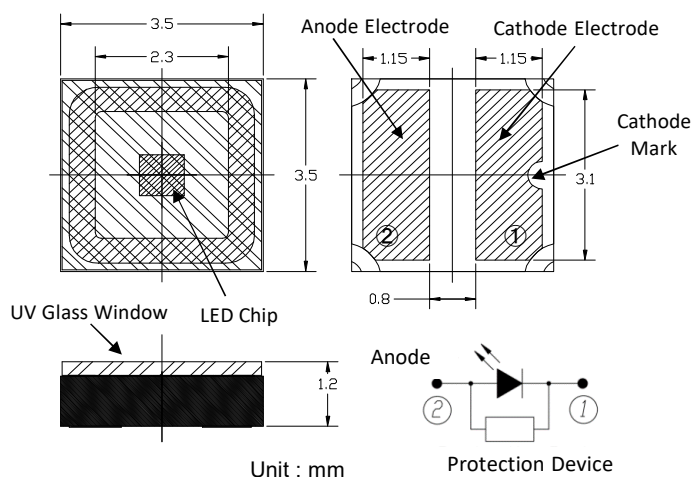
Absolute Maximum Ratings

ITEMS	SYMBOL	VALUE	UNIT
Forward Current	IF	600	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	90	°C
Operating Temperature	Topr	-30 ~ +85	°C
Storage Temperature	Tstr	-40 ~ +85 (No condensation)	°C

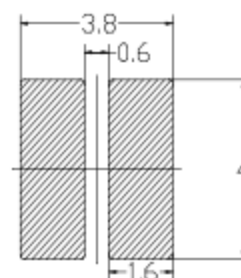
Note: Also available on PCB - Star Board MTSM340UV-F3120S



Package Dimensions

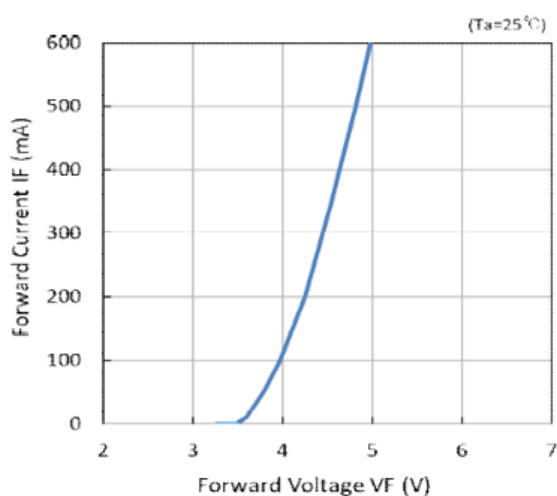


Recommended solder pad

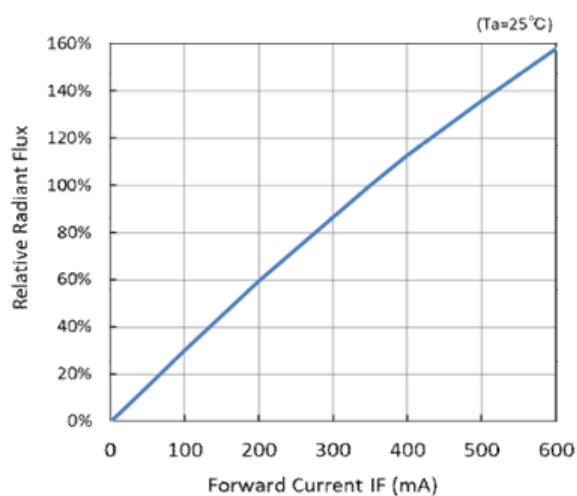


Unit : mm

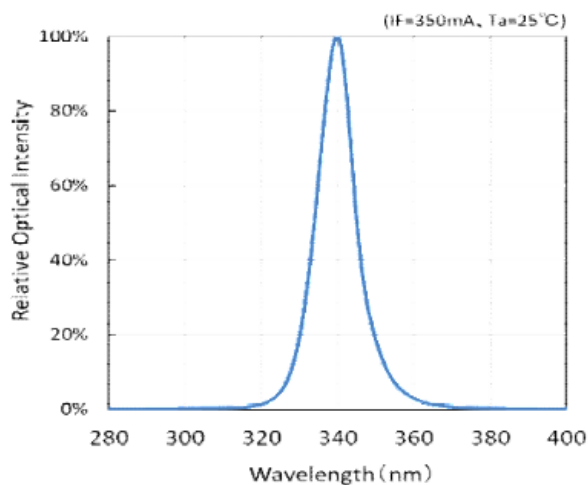
Forward Voltage vs Forward Current



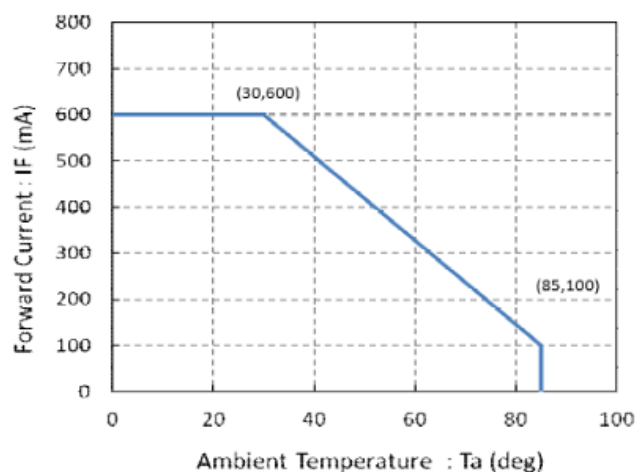
Forward Current vs Radiant Flux



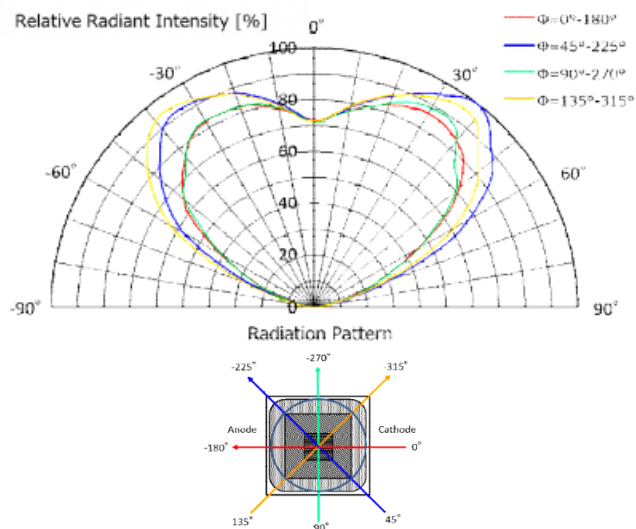
Spectrum



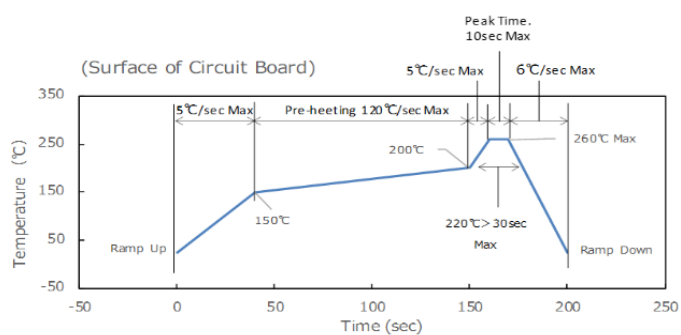
Derating Curve



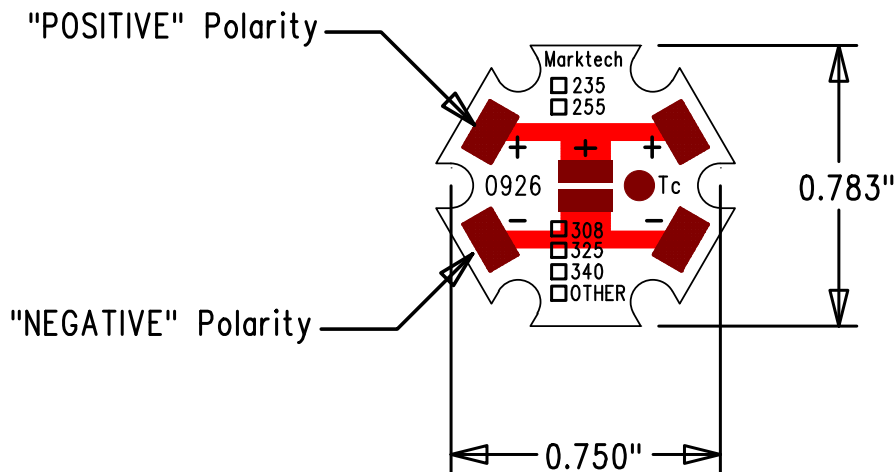
Radiation Pattern



Reflow soldering profile



Star Board Dimensions



Handling Static Electricity

This product is sensitive to static electricity and surge voltages, which may damage the device and reduce reliability. When handling the product, please refer to the example below and take sufficient measures against static electricity.

- Charge removal using wrist straps, conductive clothing, conductive shoes, conductive flooring, etc.
- Eliminating electric charges by installing equipment, jigs, etc. in the work area.
- Installation of workbenches, storage shelves, etc. using conductive materials.

	CAUTION
	• LEDs emit very strong UV radiation. • Don't look directly into the LED light. UV radiation can harm your eyes. • To prevent even inadequate exposure, wear protective eyewear. • If LEDs are embedded in devices, please indicate warning labels against the UV light LED used. • Keep out of reach of children. • Specification and dimension are subject to change for improvement without notice.

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