

Peak Emission Wavelength: 340nm

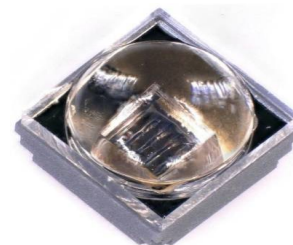
The MTSM340UV-D3035 UV emitter is specifically designed for applications requiring high radiant power output and accuracy in a 3.5 x 3.5mm Metal Sealed SMD Hemispherical Lens Type package. Custom package solutions and sorting are available.

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	60	80	--	mW
Spectral Line Half Width	$\Delta\lambda$	--	--	10	nm
Forward Voltage	VF	3.8	--	5.5	V
Viewing Angle	$2\theta_{1/2}$	--	35	--	deg

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

Absolute Maximum Ratings

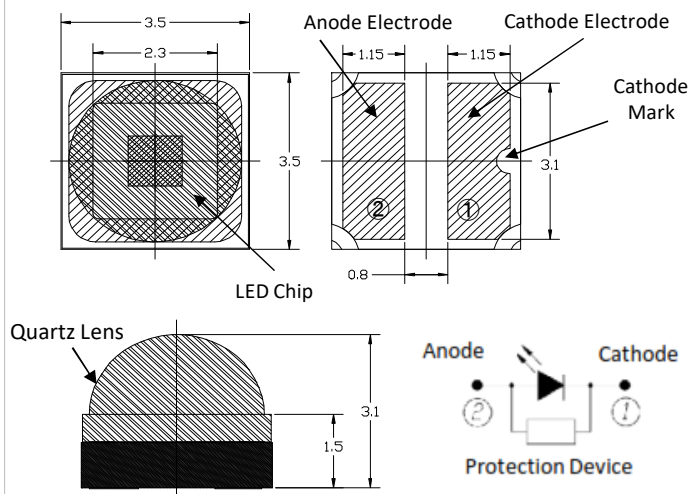
ITEMS	SYMBOL	VALUE	UNIT
Forward Current	IF	600	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	90	°C
Operating Temperature	Topr	-30 ~ +85	°C
Storage Temperature	Tstr	-40 ~ +85 (No condensation)	°C

Note: Also available on PCB - Star Board MTSM340UV-D3035S

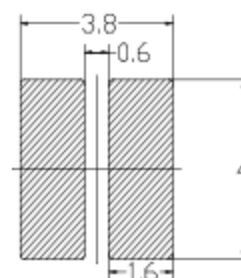


Package Dimensions

(Unit : mm)

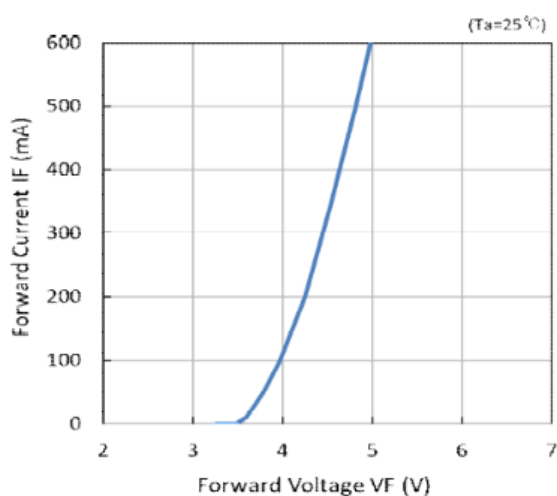


Recommended solder pad

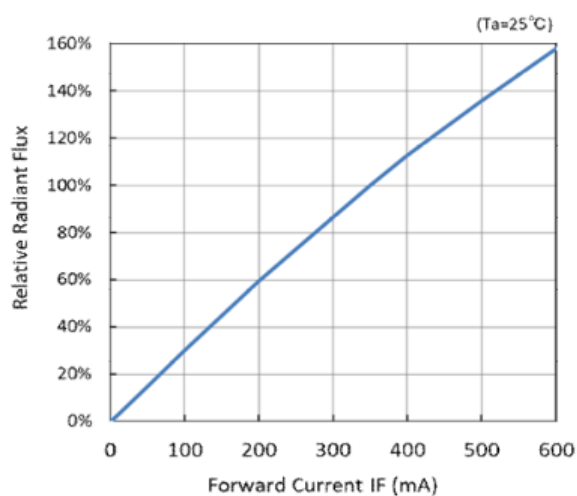


Unit : mm

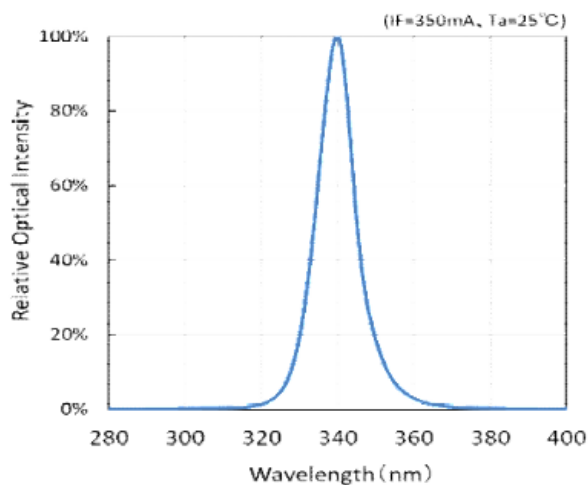
Forward Voltage vs Forward Current



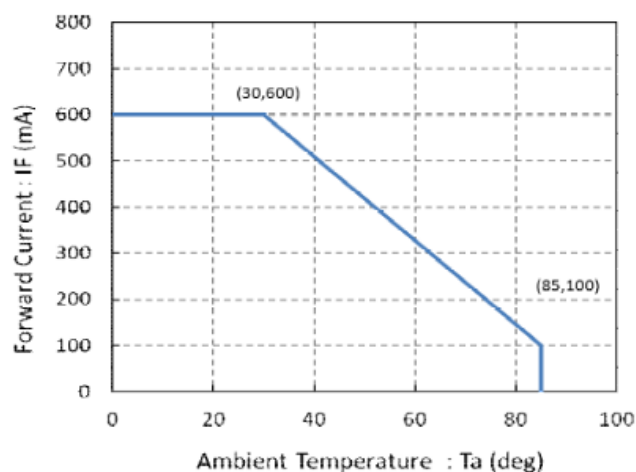
Forward Current vs Radiant Flux



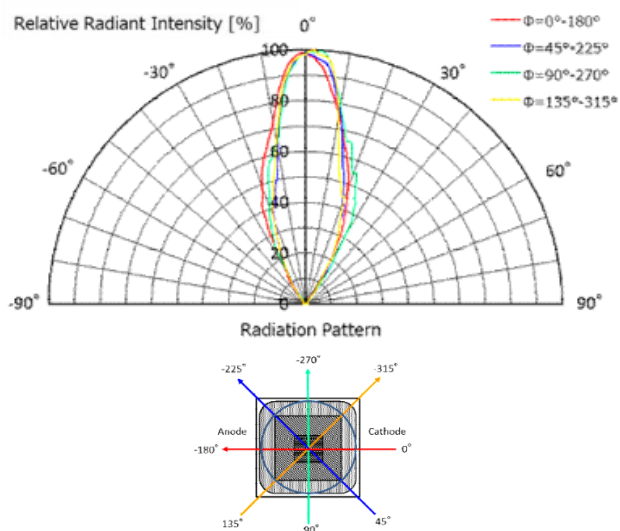
Spectrum



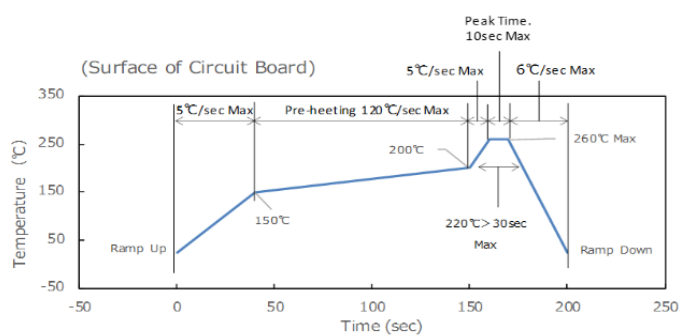
Derating Curve



Radiation Pattern



Reflow soldering profile



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