

265-365 nm UV LED
TO-39 package

UVTOP[®] 280

MEMOCVD[™]

The **UVTOP[®]** is a series of ultraviolet and deep ultraviolet hermetically packaged light emitting diodes with peak emission wavelengths in the range of 250 nm to 365 nm. A **MEMOCVD[™]**-grown AlGaIn/GaN LED chip/chip array is encapsulated in a metal-glass TO-39 package with UV-transparent optical window.

Absolute Maximum Ratings

[**UVTOP[®] -280, Ta=25° C, one chip assembly, research grade**]

Parameter	Unit	Maximum rated value	Ambient Temperature
Power Dissipation, DC	mW	150	25° C
Forward current, DC	mA	30	25° C
Pulse Forward Current (duty factor=1%, frequency=1kHz)	mA	200	25° C
Reverse Voltage	V	6	25° C
Storage Temperature	° C	-30 ~ +100	

Electro-optical characteristics [UVTOP[®] -280, Ta=25° C, research grade]

Parameter	Symbol	Unit	Minimum	Typical	Maximum	Condition
Forward voltage	VF	V		5.5	7.5	IF=20mA
Reverse Current	IR	μA			100	VR=5V
Output UV power	Pout	mW		0.5		IF=20mA
Peak Wavelength	λp	nm	270	280	290	IF=20 mA
Spectrum Half Width	HW	nm		12.0	20.0	IF=20 mA

