

## UVTOP255

### Absolute Maximum Ratings at $T_A = 25\text{ }^\circ\text{C}$

Parameter	Unit	Maximum Rated Value
Power Dissipation, DC	mW	150 (TO-39)
Forward Current, DC	mA	30
Pulse Forward Current (Duty Factor = 1%, Frequency = 1KHz)	mA	200
Reverse Voltage	V	6
Operating Temperature Range	$^\circ\text{C}$	- 30 to + 55
Storage Temperature	$^\circ\text{C}$	- 30 to +100

### Electro-Optical Characteristics at $T_A = 25\text{ }^\circ\text{C}$ , $I_F = 20\text{ mA}$

Peak Wavelength $\lambda_p$ (nm)	PKG Type	Lens Type	Part Number	Optical Power $P_{out}$ ( $\mu\text{W}$ )		Forward Voltage $V_f$ (V)		Viewing Angle $2\theta_{1/2}$ ( $^\circ$ )	FWHM (nm)	
				Min	Typ.	Typ.	Max	Typ.	Typ.	Max
260 Min: 255 nm Max: 264 nm	TO-18	FW	UVTOP255 TO18FW	150	300	6.5	8.0	120	12	15
		BL	UVTOP255 TO18BL	150	300	6.5	8.0	10	12	15
	TO-39	FW	UVTOP255 TO39FW	180	300	6.5	8.0	120	12	15
		HS	UVTOP255 TO39HS	120	200	6.5	8.0	7	12	15
		BL	UVTOP255 TO39BL	180	300	6.5	8.0	7	12	15
		TFW	UVTOP255 TO39TFW	80	125	6.5	8.0	120	12	15
		TFWR	UVTOP255 TO39TFWR	120	200	6.5	8.0	120	12	15

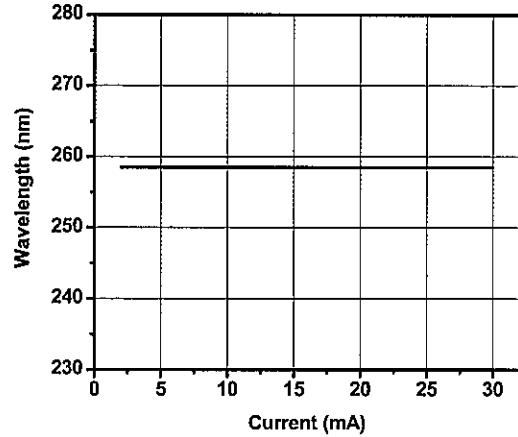
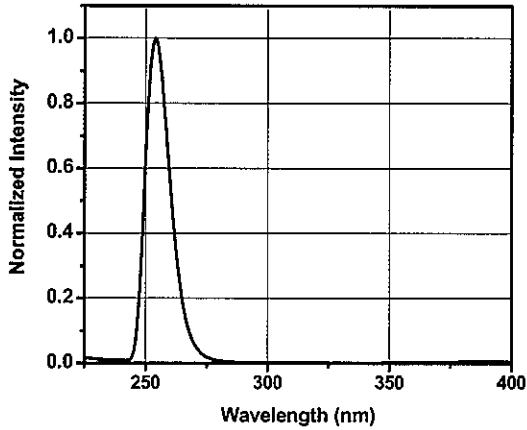
**Notes:**

- Peak wavelength measurement tolerance is +/- 2 nm
- Optical power output measurement tolerance is +/- 10%
- Forward voltage measurement tolerance is +/- 2%

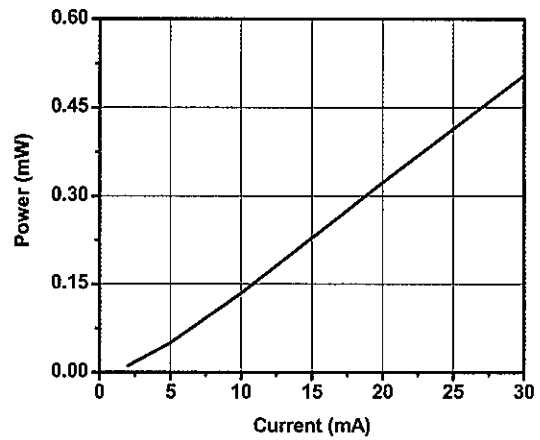
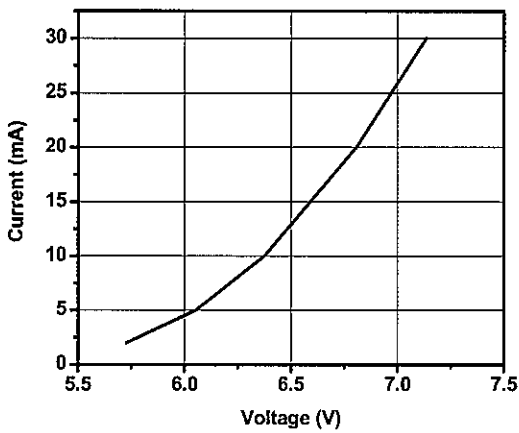


- This UV LED radiates intense UV light during operation. Do not expose any part of a human body to UV light. This can be harmful especially to the eyes and skin, even for a brief period due to the intense UV light.
- If viewing the UV light is necessary, please use UV filtered glasses to avoid damage by the UV light.
- If the UV LED in your product might be viewed directly, please affix a caution label to your production to that effect.

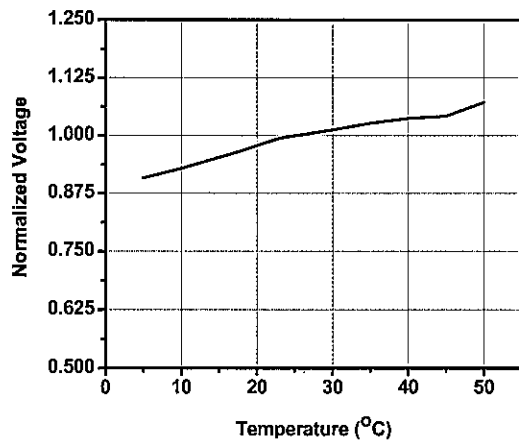
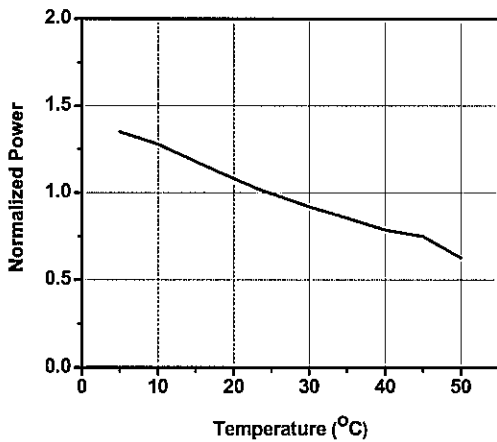
## Typical Spectral Characteristics



## Typical LED Performance at $T_A = 25^\circ\text{C}$ (UVTOP255TO39BL)



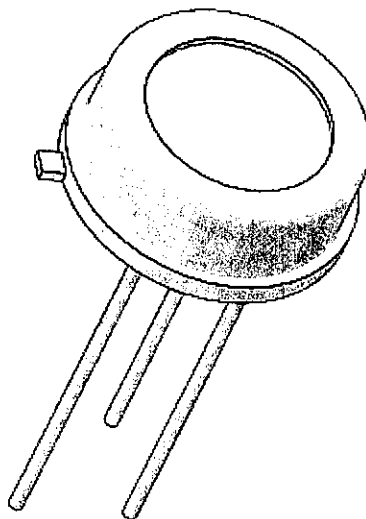
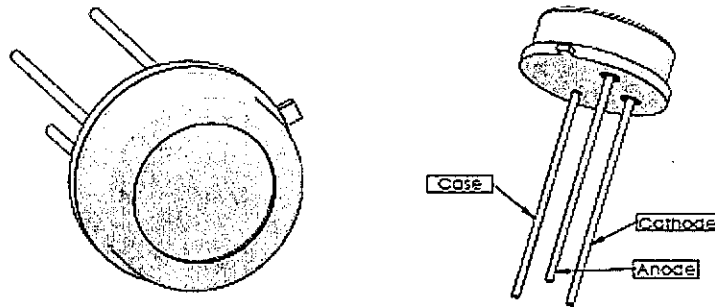
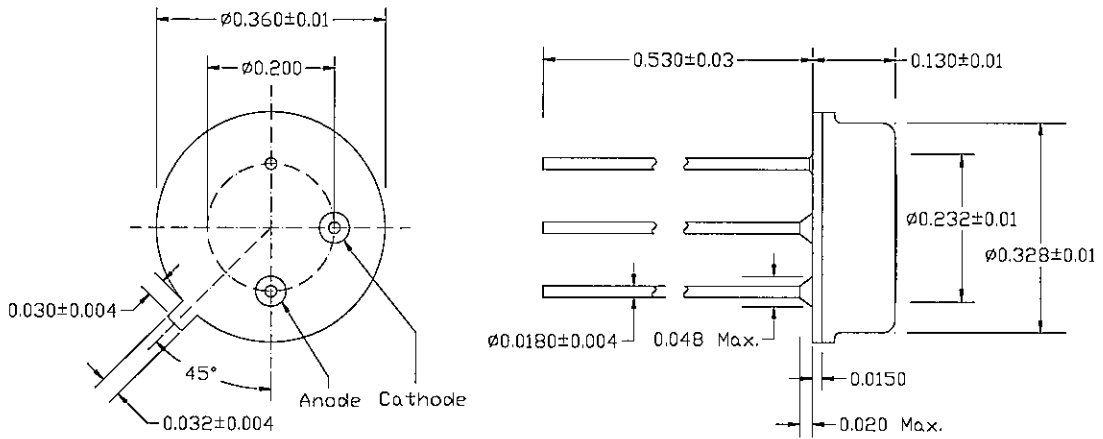
## Typical Temperature Dependencies at $I_F = 20\text{ mA}$



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# Outline Drawings

## TO-39 with Flat Window



Notes: All dimensions are in inches. Dimensions without tolerances are nominal.

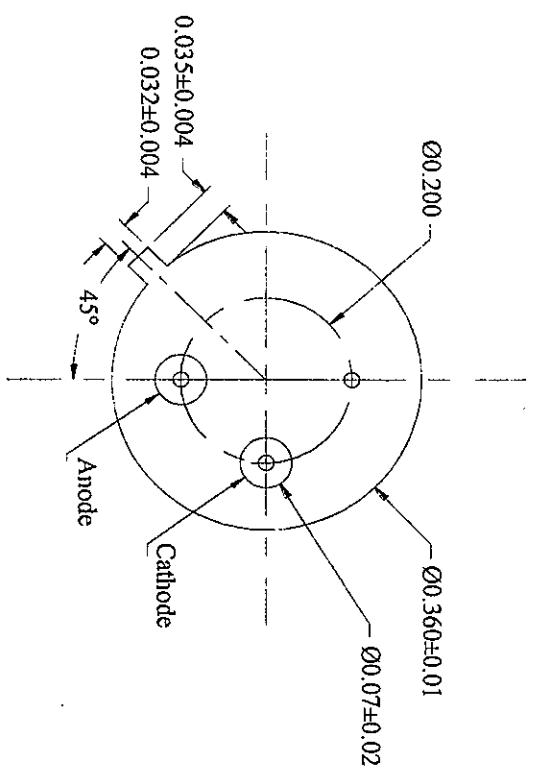


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# Outline Drawings

## TO39 with Flat Window

Top View



Side View

