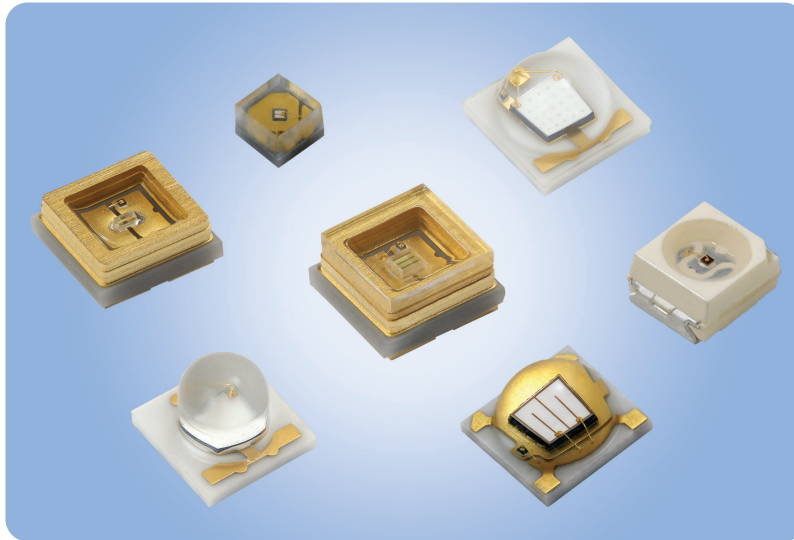




The DNA of tech.™

Ceramic-Based UV LEDs



Vishay introduces a family of ceramic-based, high power UV LEDs with silicone lenses. These new devices deliver an exceptionally long lifetime to serve as reliable, energy-saving replacements for mercury lamps.

PRODUCT BENEFITS

- Exceptionally long lifetime
- Compact surface-mount packages
- RoHS-compliant, halogen-free, and Vishay Green
- Compatible with reflow soldering processes
- Moisture sensitivity level of 3 in accordance with J-STD-020

APPLICATIONS

- UV curing
 - Nail salons
 - Dental
 - Printing
- Blood detection
- Counterfeit currency detection
- Photocatalytic purification
- Medical
- Sterilization

RESOURCES

- UV LED portfolio: www.vishay.com/leds/ultraviolet/
- Full LED portfolio: www.vishay.com/leds
- For technical questions: LED@Vishay.com
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

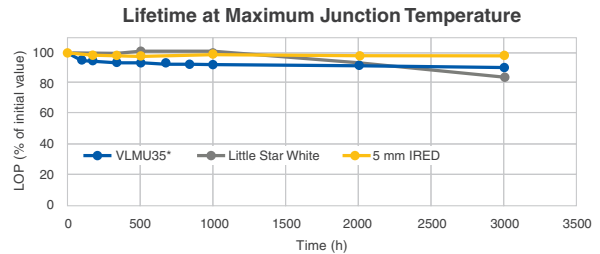
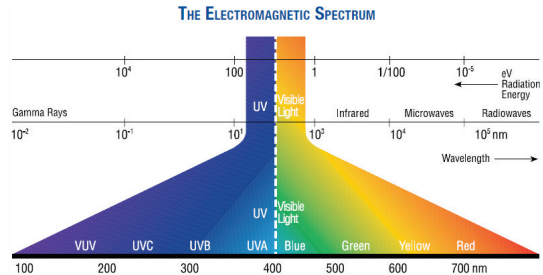


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TECHNOLOGY COMPARISON

	UV LED	MERCURY LAMP
Life cycle	25 000 hours	10 000 hours
Environmental	No heavy metals	Unfriendly
Security	Low voltage, simple drive circuit	Shock sensitive
Energy	Low power consumption	Higher power consumption



PRODUCT TABLE

PART NUMBER	PACKAGE	WAVELENGTH OR COLOR COORDINATE (X, Y)			RADIANT POWER (mW)			AT I _F (mA)	FORWARD VOLTAGE, V _F (V)		ANGLE OF HALF INTENSITY (±°)	KEY FEATURE
		MIN.	TYP.	MAX.	MIN.	TYP.	MAX.		TYP.	MAX.		
UVA												
VLMU1610-365-135	SMD ceramic mid power	362.5	367	370	18	25	30	20	3.5	4	67.5	Mid power
VLMU3100	SMD PLCC-2	400	405	410	-	15	-	20	3.2	3.6	60	Standard
VLMU3510-365-130	SMD ceramic high power	362.5	367	370	560	690	835	500	4	4.4	65	Power
VLMU3511-365-130		360	367	370	835	1000	1325	600	3.2	3.6	65	Power
VLMU3520-385-060		380	385	390	740	900	-	500	3.6	4	30	Power
VLMU3520-395-060		390	395	400	740	900	-	500	3.6	4	30	Power
VLMU3520-405-060		400	405	410	740	900	-	500	3.6	4	30	Power
VLMU3520-385-120		380	385	390	780	930	-	500	3.2	4	60	Power
VLMU3520-395-120		390	395	400	780	930	-	500	3.2	4	60	Power
VLMU3520-405-120	400	405	410	780	930	-	500	3.2	4	60	Power	
UVC												
VLMU35CB20-275-120	SMD ceramic	270	273	280	10	13.5	-	120	6.2	7.5	60	Standard
VLMU35CB21-275-120		270	273	280	12	13.5	-	120	6.2	7	60	Standard
VLMU35CL20-275-120		265	277	285	2	3	-	20	6	7	60	Standard
VLMU35CT20-275-120		270	274	280	16.5	21.5	-	180	6.3	7	60	Standard
VLMU35CT21-275-120		270	274	280	18.5	21.5	-	180	6.3	7	60	Standard
VLMU35CR40-275-120		265	274	280	27.5	33	-	250	6	7.2	60	Standard
VLMU35CR41-275-120		265	274	280	30	33	-	250	6	7.2	60	Standard