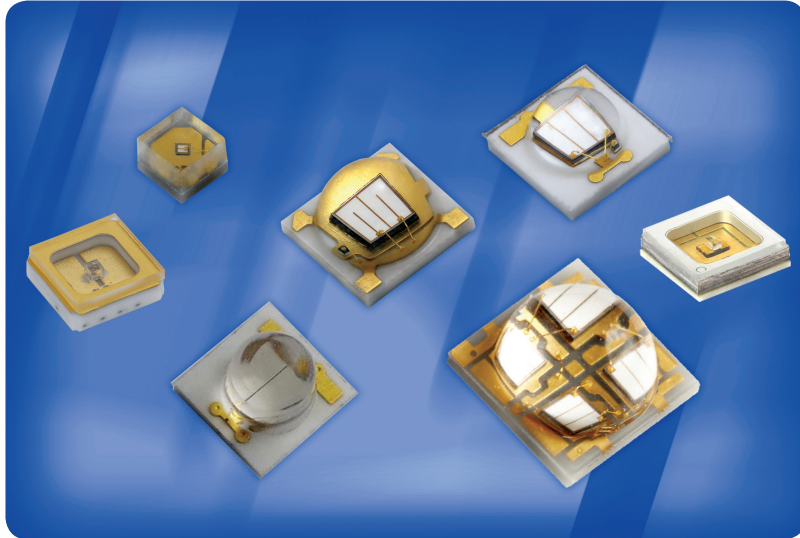


Ceramic-Based UV LEDs



Vishay introduces a family of ceramic-based, high power UV LEDs with silicone lenses that deliver exceptionally long lifetime for 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 salon
 - Dental
 - Printing
- Blood detection
- Counterfeit currency detection
- Photocatalytic purification
- Medical
- Sterilization

RESOURCES

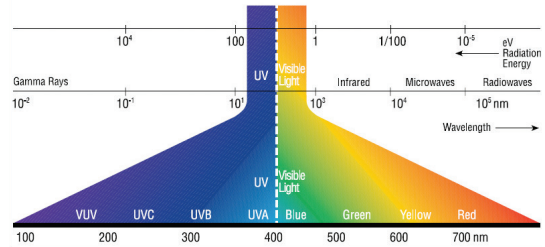
- UV LED portfolio: www.vishay.com/leds/ultraviolet/
- Full LED portfolio: www.vishay.com/leds
- For technical questions: LED@Vishay.com
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



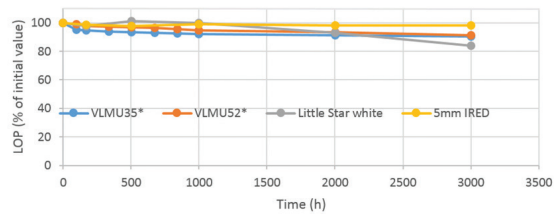
TECHNOLOGY COMPARISON

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

THE ELECTROMAGNETIC SPECTRUM



LIFETIME AT MAXIMUM JUNCTION TEMPERATURE



PRODUCT TABLE

PART NUMBER	PACKAGE	WAVELENGTH OR COLOR COORDINATE (X, Y)			RADIANT POWER (MW)			AT IF (MA)	FORWARD VOLTAGE, V _F (V)		ANGLE OF HALF INTENSITY (±°)	KEY FEATURE
		MIN.	TYP.	MAX.	MIN.	TYP.	MAX.		TYP.	MAX.		
VLMU1610-365-150	SMD ceramic mid power	362.5	367	370	14	23	26	20	3.5	4	67.5	Mid power
VLMU3100	SMD PLCC-2	400	405	410		6.8		20	3.2	3.8	60	Standard
VLMU3500-385-060	SMD ceramic high power	380	385	390	620	780	940	500	3.4	4	30	Power
VLMU3500-395-060		390	395	400								
VLMU3500-405-060		400	405	410								
VLMU3500-385-120	SMD ceramic high power	380	385	390	620	780	940	500	3.4	4	60	Power
VLMU3500-395-120		390	395	400								
VLMU3500-405-120		400	405	410								
VLMU3510-365-130	SMD ceramic high power	362.5	367	370	560	690	835	500	4	4.4	65	Power
VLMU35CL00-280-120	SMD ceramic low power	265	278	285	1.8	3.2	-	20	5	6.5	60	UVC low power
VLMU35CM00-280-120	SMD ceramic mid power	265	278	285	8	15	-	100	5	7	60	UVC mid power
VLMU60CL00-280-125	SMD ceramic low power	270	280	290	1.4	2.4	3.8	20	6.2	7.5	62.5	UVC low power