



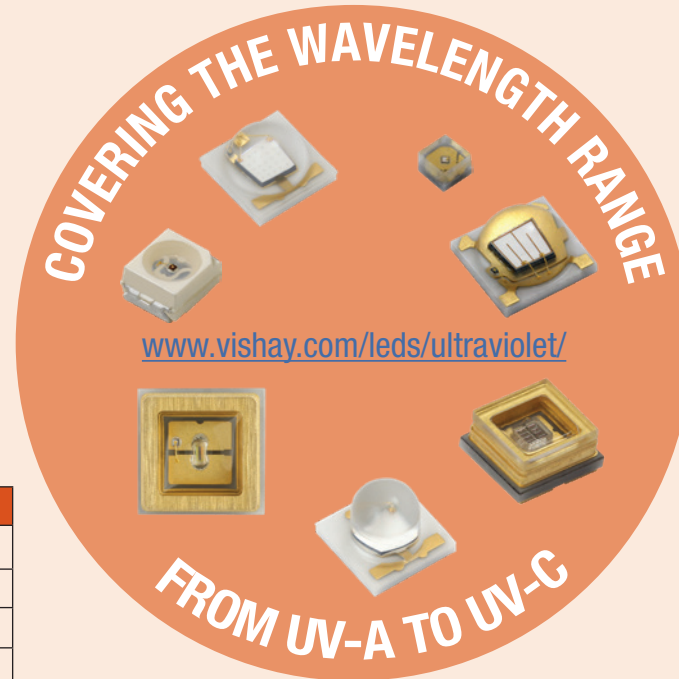
UV LIGHT AND ITS BROAD RANGE OF POSSIBILITIES

BENEFITS

- Emitters available from UV-A to UV-C
 - UV-A: optical power up to 2 W
 - UV-C: optical power up to 24 mW
- 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

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

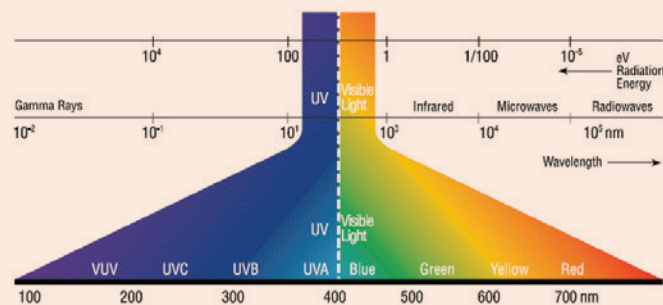


APPLICATIONS

- UV curing in
 - Nail salons
 - Dental
 - Printing
- Blood detection
- Counterfeit currency detection
- Photocatalytic purification
- Medical environment
- Sterilization and disinfection



THE ELECTROMAGNETIC SPECTRUM



AVAILABLE UV-C EMITTER

PART NUMBER	PACKAGE	PEAK WAVELENGTH (nm) λ_p			AT I_f (mA)	RADIANT POWER Φ_e (mW)			FORWARD VOLTAGE V_f (V)		ANGLE OF HALF INTENSITY (\pm°)	
		MIN.	TYP.	MAX.		MIN.	TYP.	MAX.	TYP.	MAX.		
VLMU35CL20-275-120	SMD ceramic	270	277	285	20	2	3	-	6	7	60	
VLMU35CB20-275-120		VLMU35CB20	270	273	280	120	10	13.5	-	6.2		7.5
							VLMU35CB21	12	13.5	-		6.2
VLMU35CT20-275-120		VLMU35CT20	270	274	280	180	16.5	21.5	-	6.3		7
							VLMU35CT21	18.5	21.5	-		6.3
VLMU35CR40-275-120			265	274	280	250	27.5	33	-	6		7.2
VLMU35CR41-275-120			265	274	280	250	30	33	-	6		7.2

UV LED portfolio: www.vishay.com/leds/ultraviolet/ | Full LED portfolio: www.vishay.com/leds/ | For technical questions: LED@Vishay.com