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# Vishay Upgrades VLMU35C... UVC LED Series With Higher Power, Narrower Binning

Vishay's VLMU35C... series of UVC LEDs is receiving significant performance upgrades, while staying within its previous specifications. When designing sterilization applications with UVC LEDs, two limiting factors are the minimum radiant power and the maximum wavelength. The specified forward current ( $I_{F\ spec}$ ) of the VLMU35C... series has increased, while maintaining a similar lifetime performance, resulting in additional radiant power output. For more design flexibility, we've also introduced two additional versions to our current portfolio with even narrower specifications.

| VLMU35C*2* - Series |        |       |                    |      |      |                       |                 |      |      |                       |                     |      |      |                       |             |
|---------------------|--------|-------|--------------------|------|------|-----------------------|-----------------|------|------|-----------------------|---------------------|------|------|-----------------------|-------------|
| PART                | STATUS | COLOR | RADIANT POWER (mW) |      |      | at $I_{F\ spec}$ (mA) | WAVELENGTH (nm) |      |      | at $I_{F\ spec}$ (mA) | FORWARD VOLTAGE (V) |      |      | at $I_{F\ spec}$ (mA) | TECHNO-LOGY |
|                     |        |       | MIN.               | TYP. | MAX. |                       | MIN.            | TYP. | MAX. |                       | MIN.                | TYP. | MAX. |                       |             |
| VLMU35CB20-275-120  | OLD    | UVC   | 7                  | 10   | -    | 100                   | 270             | 277  | 285  | 100                   | 5.00                | 6.50 | 7.00 | 100                   | AlGaIn      |
| VLMU35CB20-275-120  | UPDATE | UVC   | 10                 | 13.5 | -    | 120                   | 270             | 273  | 280  | 120                   | 5.00                | 6.20 | 7.50 | 120                   | AlGaIn      |
| VLMU35CB21-275-120  | NEW    | UVC   | 12                 | 13.5 | -    | 120                   | 270             | 273  | 280  | 120                   | 5.00                | 6.20 | 7.00 | 120                   | AlGaIn      |
| VLMU35CT20-275-120  | OLD    | UVC   | 12.5               | 19   | -    | 150                   | 270             | 277  | 285  | 150                   | 5.00                | 6.50 | 7.00 | 150                   | AlGaIn      |
| VLMU35CT20-275-120  | UPDATE | UVC   | 16.5               | 21.5 | -    | 180                   | 270             | 274  | 280  | 180                   | 5.00                | 6.30 | 7.00 | 180                   | AlGaIn      |
| VLMU35CT21-275-120  | NEW    | UVC   | 18.5               | 21.5 | -    | 180                   | 270             | 274  | 280  | 180                   | 5.00                | 6.30 | 7.00 | 180                   | AlGaIn      |

## Additional Key Advantages

- Improved typical and minimum radiant power
- Improved typical and maximum wavelength
- Increased  $I_{F\ spec}$ , with similar lifetime results
- Maximum junction temp. increased to 105 °C
- CB21 and CT21 versions with narrow binning options for the minimum radiant power

## Useful Links

- VLMU35CB series datasheet
- VLMU35CT series datasheet

[www.vishay.com/doc?80232](http://www.vishay.com/doc?80232)  
[www.vishay.com/doc?80256](http://www.vishay.com/doc?80256)



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