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New VLMx32xx High-Intensity SMD LEDs in PLCC-4 Package With Thermal Resistance Down to 290 K/W

The News:

Vishay Intertechnology Inc. announces the release of a new series of power surface-mount LEDs that delivers a significant advance in heat dissipation and brightness. The new VLMx32xx devices feature a PLCC-4 package with a lead frame optimized to provide very low thermal resistance and high power dissipation, which in turn enables high drive currents for twice the brightness of Vishay's high-intensity SMD LEDs in the PLCC-2 package.

Features:

- Very low thermal resistance down to 290 K/W
- Power dissipation up to 200 mW
- High drive currents up to 70 mA
- Automotive qualified per AEC-Q101
- Available in amber and yellow
- 60° angle of half-intensity
- Luminous intensity per packing unit of less than 1.6
- Lead (Pb)-free and RoHS-compliant
- Suitable for lead-free reflow soldering according to CECC 00802 and J-STD-020B, and preconditioning according to JEDEC Level 2a



Key Applications:

- Traffic signals and signs
- Interior and exterior lighting
- Automotive interior and exterior lighting
- Indicators and backlighting in audio and video, telecommunications, and office equipment
- Flat backlighting for illuminated advertising, LCDs, switches, and symbols in general use

The Perspective:

The new VLMx32xx devices feature a PLCC-4 package with a lead frame optimized to provide very low thermal resistance — down to 290 K/W — and power dissipation up to 200 mW, which in turn enables high drive currents up to 70 mA for twice the brightness of Vishay's high-intensity SMD LEDs in the PLCC-2 package.

The Key Benefits:

- Twice the brightness of Vishay's high-intensity SMD LEDs in the PLCC-2 package
- Automotive qualified per AEC-Q101
- Categorized, per packing unit, for luminous intensity, color, and forward voltage, so they provide even color and brightness
- Lead (Pb)-free and RoHS-compliant

New Power SMD LED in PLCC-4: Summary Table

Color	Dominant wavelength (nm)	Model	I_v typ. (mcd)	R_{thJA} (K/W)	P_{tot} (mW)
Amber	610 to 621	VLMK32..	1400 - 2850	290	200
Yellow	585 to 594	VLMY32..	1400 - 2850	290	200

Availability: Samples and production quantities of the new VLMx32xx power LEDs are available now with lead times of six weeks for larger orders.

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