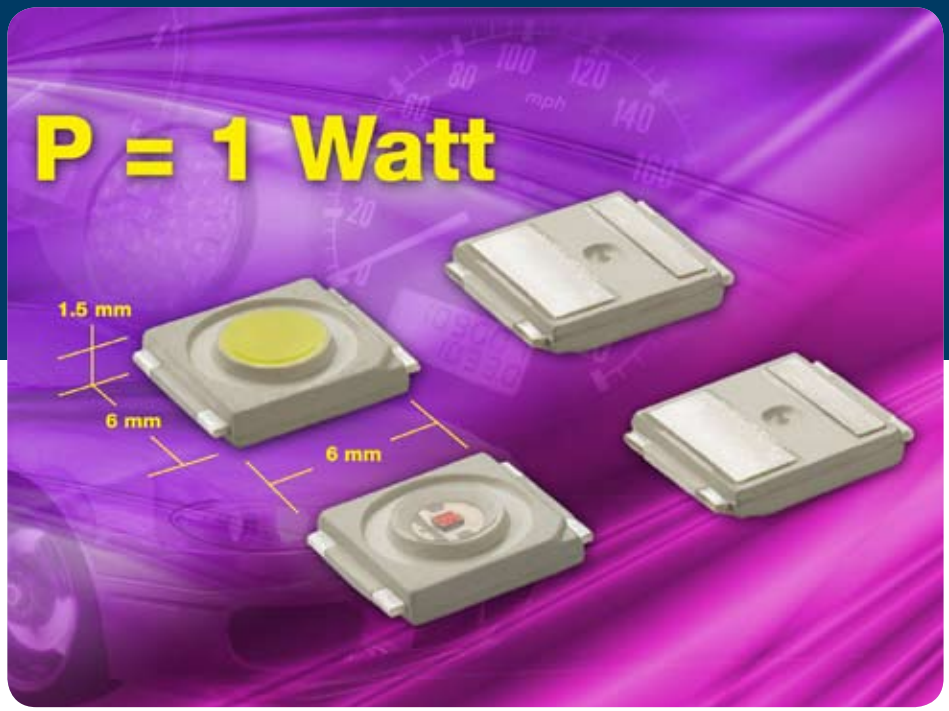
LITTLE STAR® 1-W POWER SMD LED

VLMx71.. series



Super High-Brightness SMD LEDs in Ultra-Low Height Profile Package

FEATURES

- Red, amber, yellow, white, and warm white versions available
- Various luminous flux options available
- High brightness: 21 lm to 97 lm
- Compact 6.0-mm by 6.0-mm footprint and ultra-low profile of 1.5 mm
- Low thermal resistance: R_{thJP} = 18 K/W to 20 K/W
- Compatible to IR reflow soldering processes
- Automotive qualified AEC-Q101
- Comply with RoHS 2002/95/EC and WEEE 2002/96/EC
- Preconditioned according to JEDEC moisture sensitivity Level 2a standards

BENEFITS

- Super high brightness
- Low profile
- Optical efficiency of 55 lm/W

Datasheet is available on our web site at www.vishay.com
http://www.vishay.com/leds/little-star/

Little Star® 1-W Power SMD LED

APPLICATIONS

- Automotive: exterior applications, including: center high mounted stop light (CHMSL), signal lighting, fog-lamp, etc.
- Communication: indicator and backlight in mobile phone
- Industry: white good, such as microwave and conventional ovens
- Lighting: landscape lighting, architectural lighting, general lighting, etc.

LED Series	VLMK71..	VLMR71..	VLMY71..	VLMW71..	VLMW711..
Color	Amber	Red	Yellow	Warm White	White
Technology	AlInGaP	AlInGaP	AlInGaP	InGaN	InGaN
Luminous intensity range	9000mcd to 18000 mcd	7150 mcd to 14000 mcd	7150 mcd to 14000 mcd	11250 mcd to 22400mcd	14000mcd to 28500 mcd
Luminous Flux	26100mlm to 52000 mlm	20700 mlm to 39000 mlm	20700 mlm to 39000 mlm	33000 mlm to 71000 mlm	39000mlm to 97000 mlm
Surge Current	500 mA	500 mA	500 mA	1000 mA	1000 mA
Power dissipation	1.2 W	1.2 W	1.2 W	1.4 W	1.4 W
Forward current	400 mA	400 mA	400 mA	350 mA	350 mA
Forward voltage (Max.)	2.8 V	2.8 V	2.8 V	4.0 V	4.0 V
Thermal resistance	20 K/W	20 K/W	20 K/W	18 K/W	18 K/W
Junction Temperature	+120 °C	+120 °C	+120 °C	+120 °C	+120 °C

NOTICE Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies. Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right. The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.