



LITTLE STAR® 1 W POWER SMD LED

VLMx71.. Series



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

KEY BENEFITS

- Red, amber, yellow, white, neutral white, and warm white versions available
- Luminous flux up to 114 lm
- Compact 6 mm x 6 mm footprint and ultra-low profile of 1.5 mm
- Viewing angle of 120°
- Low thermal resistance: $R_{thJP} = 10 \text{ K/W to } 20 \text{ K/W}$
- Maximum junction temperature of 120 °C
- Compatible with IR reflow soldering processes
- AEC-Q101 qualified
- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC
- Preconditioned according to JEDEC moisture sensitivity level 2a standards

BENEFITS

- Super high brightness
- Low profile
- Optical efficiency up to 102 lm/W



Little Star[®] 1 W Power SMD LED

APPLICATIONS

- Automotive: exterior applications, including center high mounted stop light (CHMSL), signal lighting, and fog lamps
- Communication: indicator and backlight in mobile phones
- Industrial: white goods, such as microwaves, refrigerators, and conventional ovens
- Lighting: landscape lighting, architectural lighting, and general lighting

LED Series	VLMK71 ABAD	VLMR71 AAAC	VLMY71 AAAC	VLMW71 S2S3QN	VLMW711 T3U2US	VLMW711 U2U3XV
Color	Amber	Red	Yellow	Warm white	Natural white	White
Technology	AllnGaP	AllnGaP	AllnGaP	InGaN	InGaN	InGaN
Luminous Intensity	9.0 cd to 18.0 cd	7.2 cd to 14.0 cd	7.2 cd to 14.0 cd	19.0 cd	25.0 cd	29.7 cd
Luminous Flux	26.1 lm to 52.0 lm	20.7 lm to 39.0 lm	20.7 lm to 39.0 lm	51.7 lm to 67.2 lm	76.5 lm to 99.4 lm	87.4 lm to 113.6 lm
Surge Current	500 mA	500 mA	500 mA	1000 mA	1000 mA	1000 mA
Power Dissipation	1.2 W	1.2 W	1.2 W	1.4 W	1.4 W	1.4 W
Forward Current	400 mA	400 mA	400 mA	350 mA	350 mA	350 mA
Forward Voltage (Max.)	2.8 V	2.8 V	2.8 V	4.0 V	4.0 V	4.0 V
Thermal Resistance	20 K/W	20 K/W	20 K/W	18 K/W	10 K/W	10 K/W

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