

Part Number: ZMG54W-1

2.0x1.25mm SMD CHIP LED LAMP

Features

- •2.0mmx1.25mm SMT LED,0.75mm THICKNESS.
- •LOW POWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VARIOUS COLORS AND LENS TYPES AVAILABLE.
- •PACKAGE: 2000PCS/REEL.
- •MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- •Rohs Compliant.

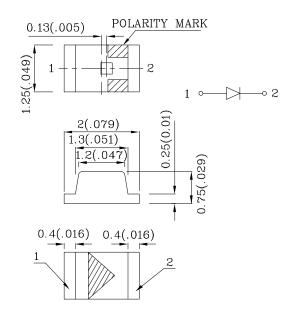




Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004)$ unless otherwise noted.
- $3. {\rm Specifications}$ are subject to change without notice.

Absolute Maximum Ratings (TA=25°C)		MG (GaP)	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	140	mA
Power Dissipation	Рт	62.5	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	



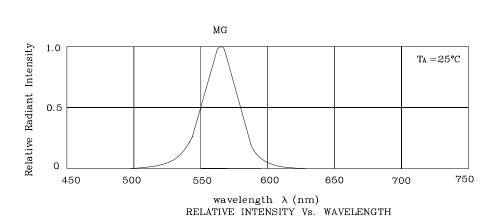
Operating Characteristic (TA=25°C)	MG (GaP)	Unit	
Forward Voltage (Typ.) (IF=20mA)	VF	2.2	V
Forward Voltage (Max.) (IF=20mA)	VF	2.5	V
Reverse Current (Max.) (VR=5V)	IR	10	uA
Wavelength of Peak Emission (Typ.) (IF=20mA)	λΡ	565	nm
Wavelength of Dominant Emission (Typ.) (IF=20mA)	λ D	568	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	Δλ	30	nm
Capacitance (VF=0V, f=1MHz)	С	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd		Wavelength nm λ P	Viewing Angle 2 0 1/2
				min.	typ.		
ZMG54W-1	Green	GaP	Water Clear	4	14	565	120°
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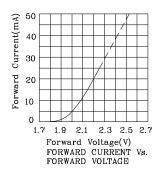


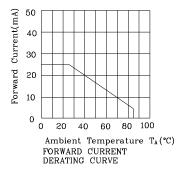
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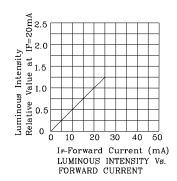
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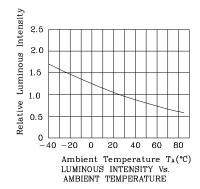


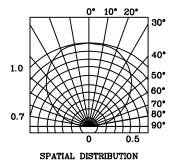
❖ MG











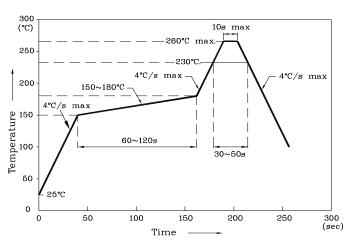
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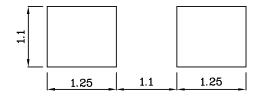
Reflow Soldering Profile For Lead-free SMT Process.

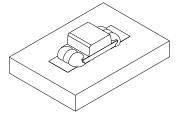


- 1. Maximum soldering temperature should not exceed 260°C.
- 2. Recommended reflow temperature: 145°c-260°C.
- 3.Do not put stress to the epoxy resin during high temperatures conditions.

❖ Recommended Soldering Pattern (Units: mm;Tolerance: ± 0.1)

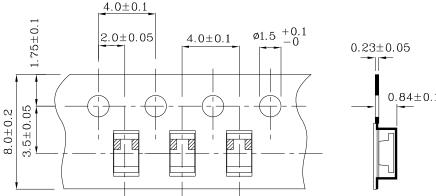
❖ The device has a single mounting surface. The device must be mounted according to the specifications.

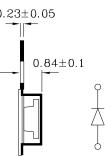




* Tape Specification (Units: mm)

TAPE





Remarks:

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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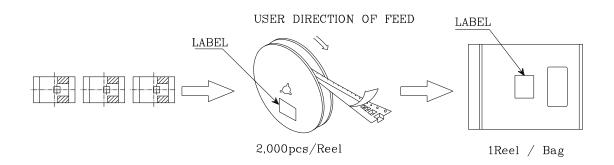


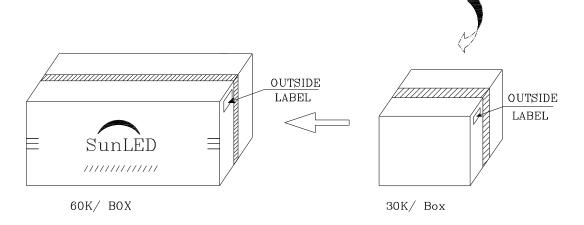
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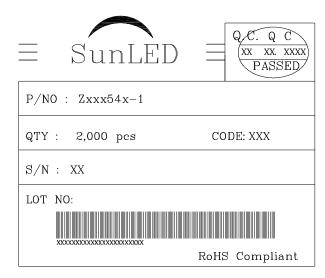
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PACKING & LABEL SPECIFICATIONS

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