

Part Number: XZVGMYK53W-9

1.6 x 0.8 x 0.5 mm Bi-Color Surface Mount LED

Features

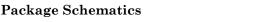
- 1.6mm x 0.8mm SMD LED
- Package height: 0.5mm
- IR-reflow compatible
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Halogen-free
- RoHS compliant

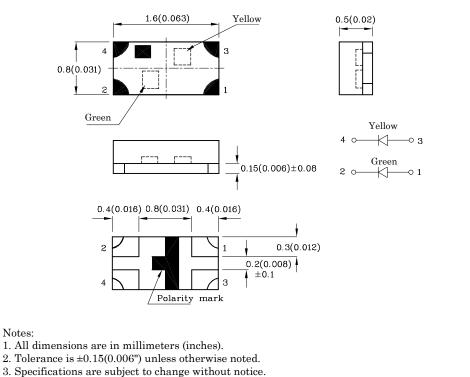




ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Notes:





Absolute Maximum Ratings Green Yellow Unit (T_A=25°C) (AlGaInP) (AlGaInP) Reverse Voltage V_{R} $\mathbf{5}$ $\mathbf{5}$ V Forward Current \mathbf{I}_{F} 30 30 mА Forward Current (Peak) 1/10 Duty Cycle ifs 150175mА 0.1ms Pulse Width mW Power Dissipation P_{D} 7575**Operating Temperature** $T_{\rm A}$ $-40 \sim +85$ °C Storage Temperature Tstg $\text{-}40 \sim +85$

A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

Operating Characteristics (T _A =25°C)	Green (AlGaInP)	Yellow (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	2.1	2	v
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	2.5	2.5	v
Reverse Current (Max.) (V _R =5V)	I_{R}	10	10	μА
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λP	574*	590*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I _F =20mA)	λD	570*	590*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle \lambda$	20	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	20	pF

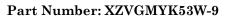
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZVGMYK53W-9	Green	AlGaInP	Water Clear	20*	49*	574*	130°
	Yellow	AlGaInP		80*	148*	590*	

*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

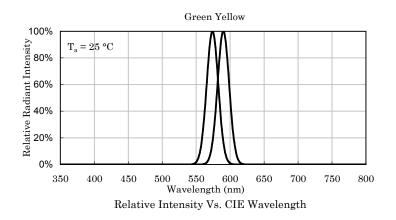
Nov 26,2020

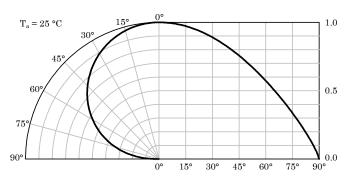
XDSB6069 V7-Z Layout: Maggie L.





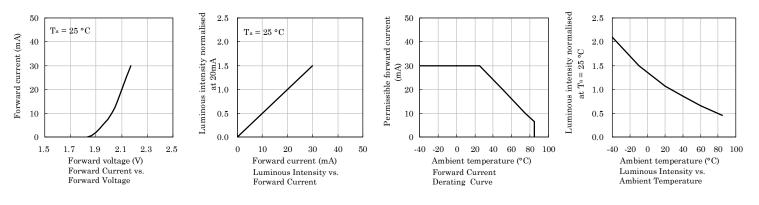
 $1.6 \ge 0.8 \ge 0.5$ mm Bi-Color Surface Mount LED



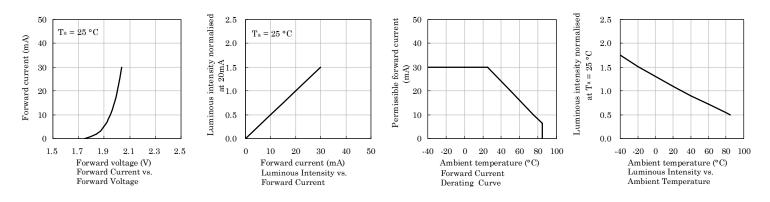




✤ Green

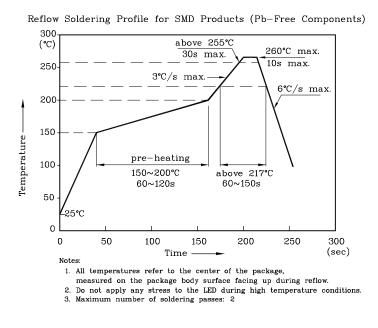


♦ Yellow

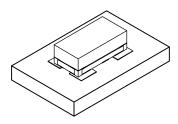




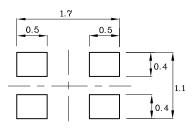
LED is recommended for reflow soldering and soldering profile is shown below.



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

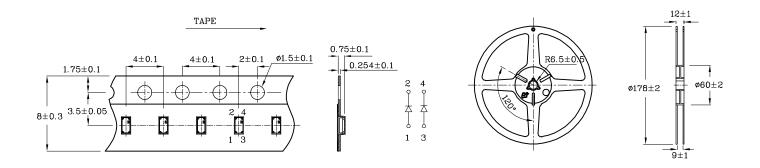


Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



Tape Specification (Units : mm)

Reel Dimension (Units : mm)



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

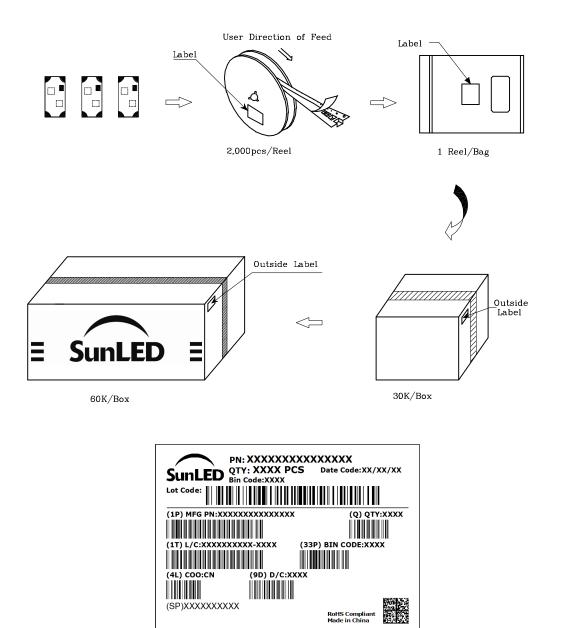
2. Luminous intensity / luminous flux: +/-15%

3. Forward Voltage: +/-0.1V $\,$

Note: Accuracy may depend on the sorting parameters.



PACKING & LABEL SPECIFICATIONS



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