

3.5x2.8 mm SMD CHIP LED LAMP

PRELIMINARY SPEC

Features

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- WHITE SMD PACKAGE, SILICONE RESIN.
- LOW THERMAL RESISTANCE.
- PACKAGE: 1500PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 2a.
- RoHS COMPLIANT.



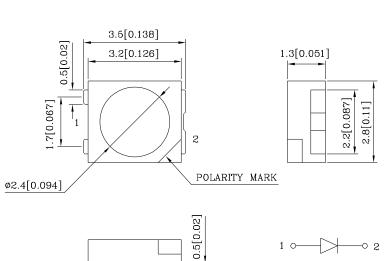
Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.

3. Specifications are subject to change without notice.

Absolute Maximum Rat (TA=25°C)	MYL (AlInGaP)	Unit			
Reverse Voltage	VR	5	v		
Forward Current	IF	150	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	200	mA		
Power Dissipation	Рт	480	mW		
Operating Temperature	ТА	-40 ~ +85	°C		
Storage Temperature	Tstg	-40 ~ +85	U		



Operating Characteristi (TA=25°C)	MYL (AlInGaP)	Unit	
Forward Voltage (Typ.) (IF=150mA)	VF	2.8	V
Forward Voltage (Max.) (IF=150mA)	VF	3.2	v
Reverse Current (Max.) (VR=5V)	Ir	10	uA
Wavelength of Peak Emission (Typ.) (IF=150mA)	λΡ	590	nm
Wavelength of Dominant Emission (Typ.) (IF=150mA)	λD	590	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=150mA)	Δλ	20	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	С	20	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=150mA) mcd		Luminous Flux (IF=150mA) mlm		Wavelength nm λ P	Viewing Angle 2 0 1/2
				min.	typ.	min.	typ.		
ZMYL109S	Yellow	AlInGaP	Water Clear	1600	2990	3000	6000	590	120 [°]
Published Date : FEB 25 , 2008		Drawing No : SDS	A6168	V1	Ch	ecked : B.	L.LIU	P.1/5	

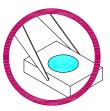
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Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might leads to damage and premature failure of the LED.

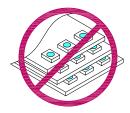
1. Handle the component along the side surfaces by using forceps or appropriate tools.



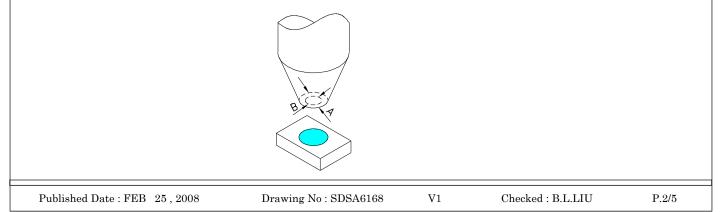
2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.



3. Do not stack together assembled PCBs containing exposed LEDs. Outside impact may scratch the silicone lens or damage the internal circuitry.



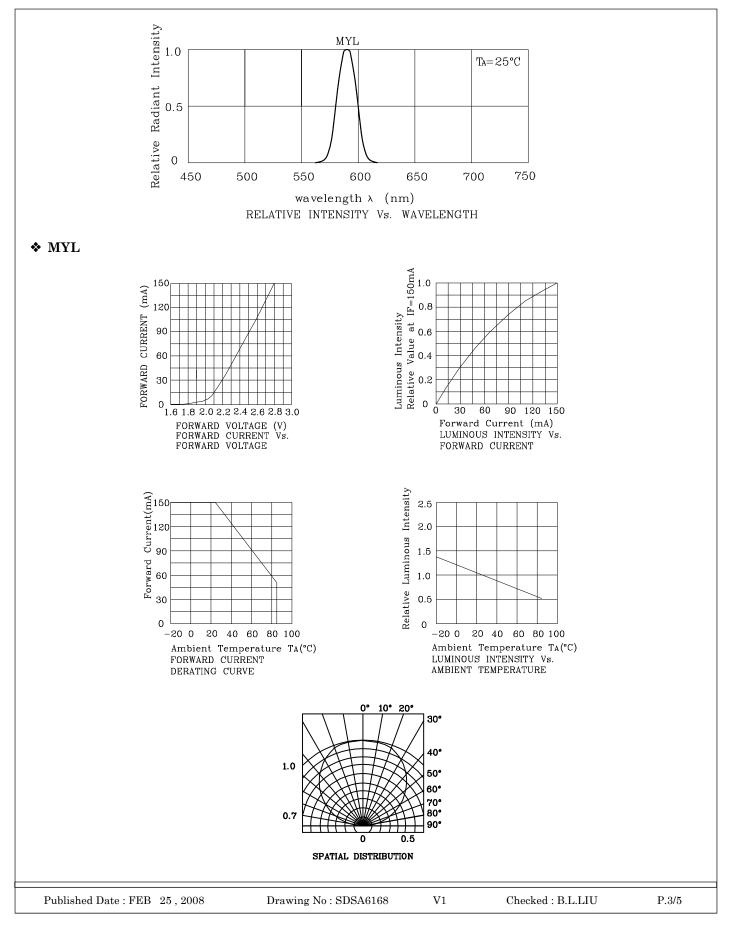
- 4. The outer diameter of the SMD pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



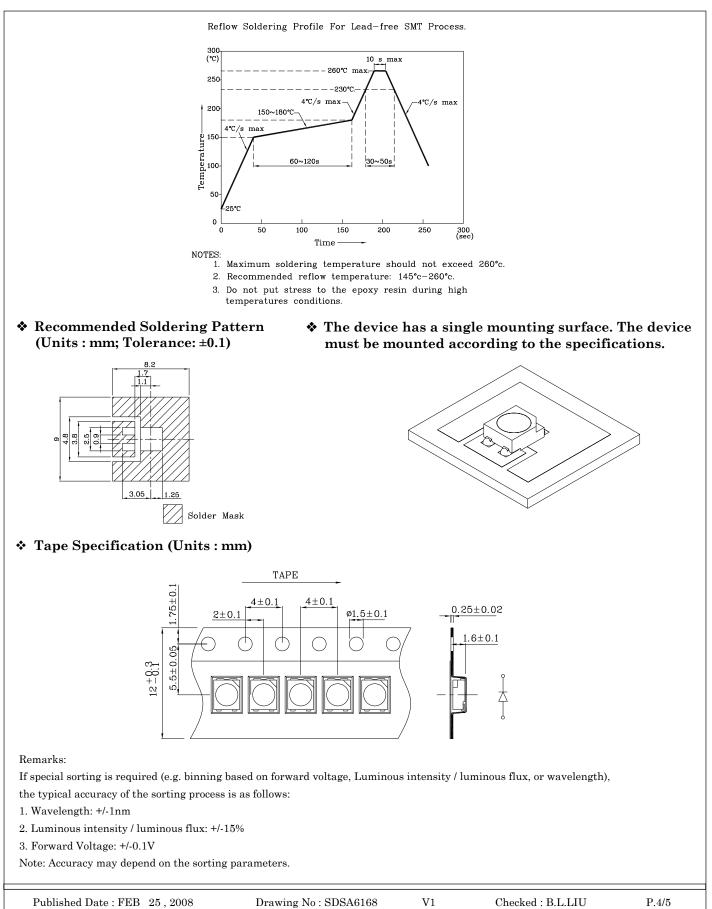


ZMYL109S Part Number:

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