

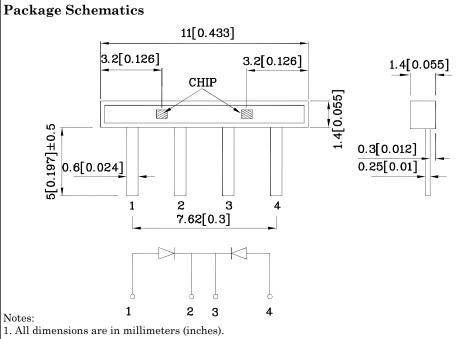
Part Number: XZMDK66S

11mm x 1.4mm SIDE VIEW

Features

- \bullet Low power consumption
- \bullet Ideal for backlighting
- \bullet RoHS compliant





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

3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)		MDK (AlGaInP)	Unit		
Reverse Voltage	V_{R}	5	V		
Forward Current	\mathbf{I}_{F}	30	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	185	mA		
Power Dissipation	\mathbf{P}_{D}	75	mW		
Operating Temperature	$T_{\rm A}$	$-40 \sim +85$	°C		
Storage Temperature	Tstg	$-40 \sim +85$	-0		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds				
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds				

Operating Characteristics (T _A =25°C)		MDK (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	$V_{\rm F}$	1.95	V
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	10	uA
Wavelength of Peak Emission CIE127-2007(Typ.) (I _F =20mA)	λP	$650 \\ 645^{*}$	nm
Wavelength of Dominant Emission CIE127-2007(Typ.) (I _F =20mA)	λD	630 630*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle\lambda$	28	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	35	$_{\rm pF}$

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λΡ	Viewing Angle 20 1/2
				min.	typ.		
XZMDK66S	Red	AlGaInP	Water Clear	120 55*	248 100*	650 645*	120°

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

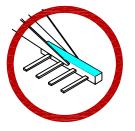
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Handling Precautions

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 lead to damage and premature failure of the LED.

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



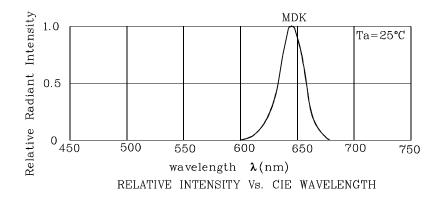
2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.

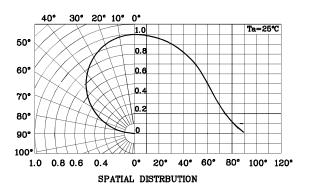


3. As silicone encapsulation is permeable to gases, some corrosive substances such as H_2S might corrode silver plating of leadframe. Special care should be taken if an LED with silicone encapsulation is to be used near such substances.

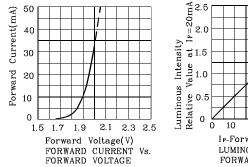
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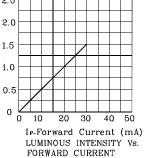


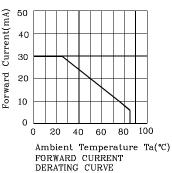


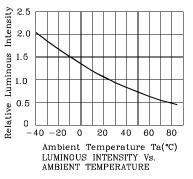


♦ MDK









Remarks:

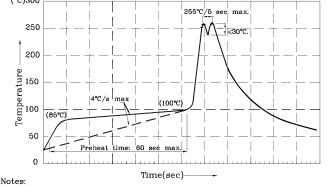
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength),

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.

Wave Soldering Profile For Thru-Hole Products (Pb-Free Components) (°C)300



I.Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
2.Peak wave soldering temperature between 245°C ~ 255°C for 3 sec

 Peak wave soldering temperature between 245°C ~ 255°C for (5 sec max).

3.Do not apply stress to the epoxy resin while the temperature is above 85°C. 4.Fixtures should not incur stress on the component when mounting and during process.

during soldering process. 5.SAC 305 solder alloy is recommended.

6.No more than one wave soldering pass.



PACKING & LABEL SPECIFICATIONS

