

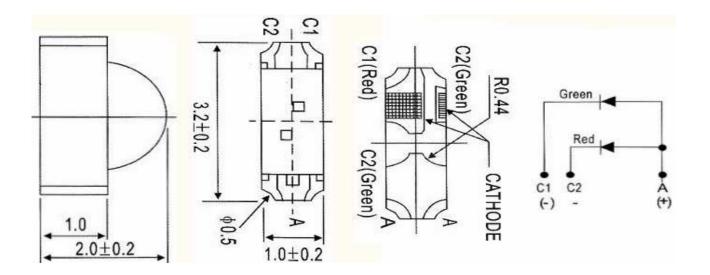




Applications

- Interior automotive lighting
 - Optical indicators
- Communication Products
 - Backlighting
 - Toys

Technical Drawing



Recommended Soldering Pattern

Notes:

All dimensions in mm tolerance is ± 0.1mm unless otherwise noted.

Right Angle LED Green Red

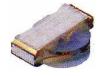
Part No.: M11M6001

Customer:

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	06.12.2009
APPD:	Ping			FINISH	Hui	Sheet	1 from 9

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info@edcon-components.com www.edcon-components.com email:







Absolute Maximum Ratings

Ta=25°C

Item	Symbol	GaP	AlGalnP	Unit
Power Dissipation	P_{D}			mW
DC Forward Current	I _F	20		mA
Plused Forward Current	I _{FP} *			mA
Reverse Voltage	V_R	-		
Operating Temperature	T _{OP}	-		°C
Storage Temperature	T _{ST}	-55 to	100	°C

^{* 0.1} msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color		Green	Red	
Material		GaP	AlGalnP	
Forward Voltage	typ.	2.1	2.0	V_{F}
Forward voilage	max.	2.4	2.4	V_{F}
Wavelength	λD	571	639	nm
_	λP			nm
typ.	Δλ			nm
Color Temperature	min.			K
Color reiliperature	max.			K
Luminous Intensity *	min.	5	17	mcd
Luminous intensity	typ.	9	30	mcd
Reverse Current	max.	·		μA
Viewing Angle	2Θ1/2		120	

^{*} Per NIST standards

Right Angle LED
Green Red

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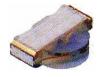
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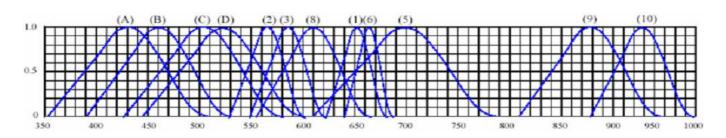
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Curve



Wavelength (nm)

Relative Intensity vs Wavelength

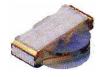
(1)	GaAsP / GaAs	(9)	GaAlAs
	655nm Red		880nm
(2)	GaP	(10)	GaAs & GaAlAs
	568nm Yellow Green		940nm
(3)	GaAsP / GaP	(A)	GaN
	585nm Yellow		430nm Blue
(4)	GaAsP / GaP	(B)	InGaN
	635nm Orange & Red		470nm Blue
(5)	GaP	(C)	InGaN
	700nm Red	. ,	502nm Green
(6)	GaAlAs / GaAs	(D)	InGaN
	660nm Red	. ,	523nm Green
(8)	GaAsP / GaP		
. ,	610nm Red		

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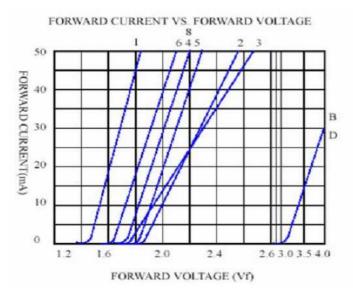


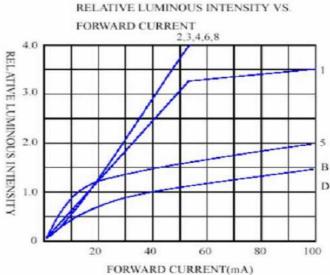


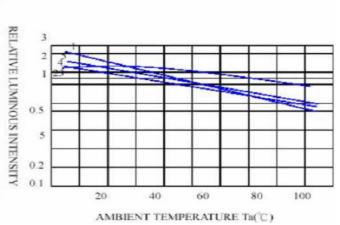


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Curve







Right Angle LED Green Red

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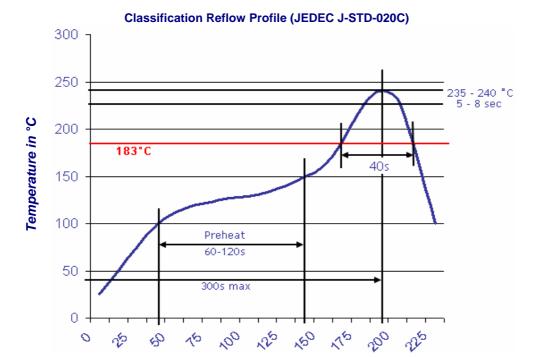


Solder Condition

Lead Free Solder

0

P



Time in (sec)

Right Angle LED Green Red

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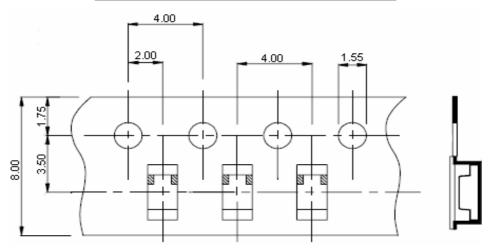
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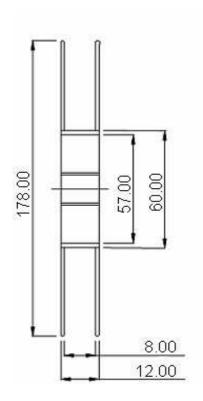


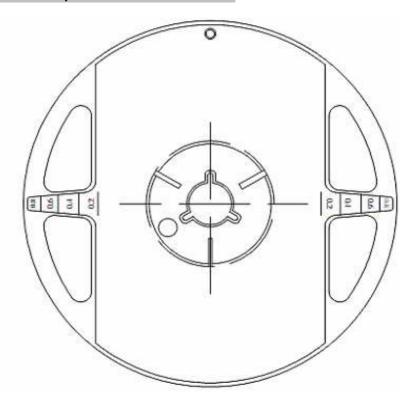


Packing Specifications



Reel Specifications



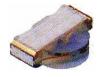


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Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although ist 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 th 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 surfance. 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.



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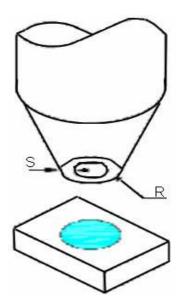
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching 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.



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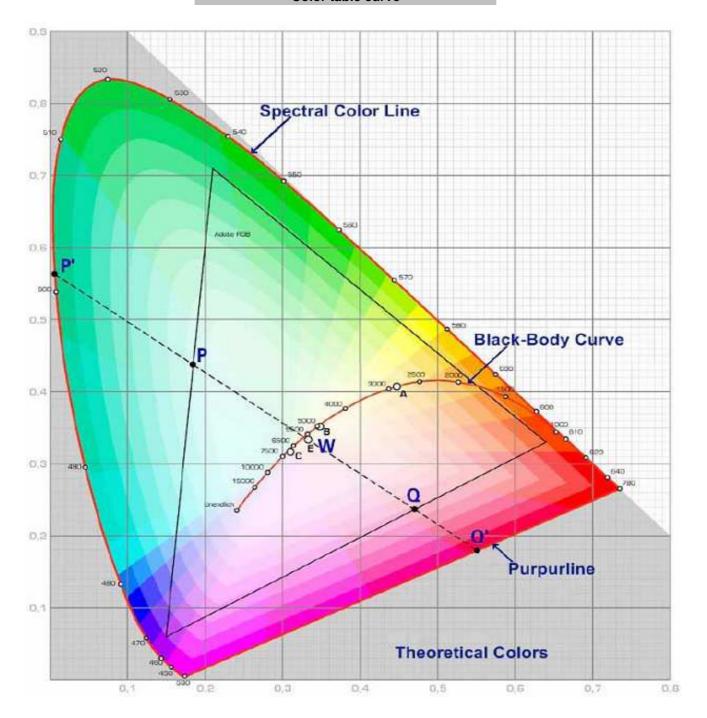
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Color table curve



Right Angle LED	
Green	Red

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