

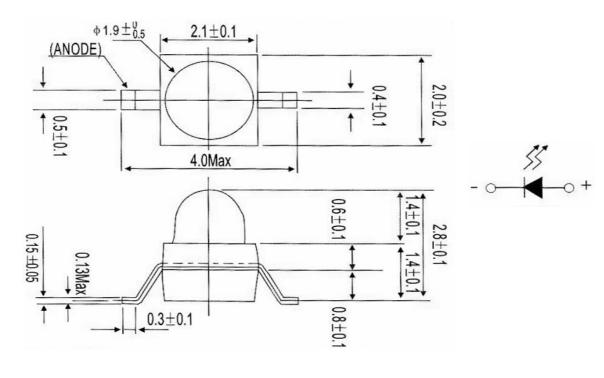


#### Applications

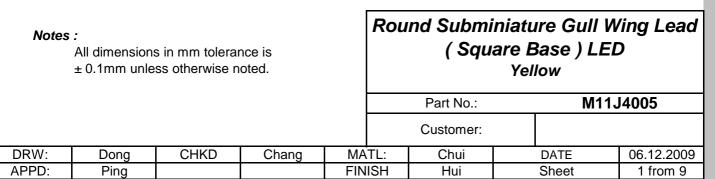
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

#### **Technical Drawing**



**Recommended Soldering Pattern** 



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#### Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AlGalnP	Unit
Power Dissipation	P <sub>D</sub>		mW
DC Forward Current	I <sub>F</sub>	20	mA
Plused Forward Current	I <sub>FP</sub> *		mA
Reverse Voltage	V <sub>R</sub>		V
Operating Temperature	T <sub>OP</sub>		°C
Storage Temperature	T <sub>ST</sub>	-55 to 100	°C

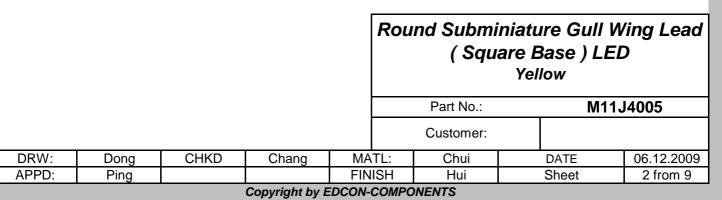
\* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I<sub>F</sub>=20mA Ta=25°C

Ermitting Color	Yellow							
Material		AlGaInP						
Forward Voltage	typ.	2.0	V <sub>F</sub>					
Forward voltage	max.	2.4	V <sub>F</sub>					
Wavelength	λD	589	nm					
•	λP		nm					
typ.	Δλ		nm					
Color Temperature	min.		K					
Color remperature	max.		K					
Luminous Intensity *	min.	198	mcd					
Lumnous intensity	typ.	496	mcd					
Reverse Current	max.		μA					
Viewing Angle	2Θ1/2	25						

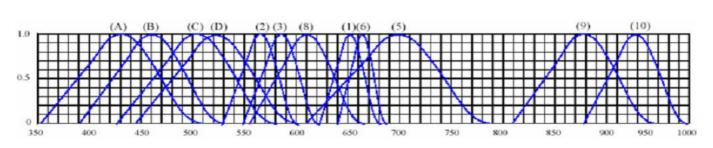
\* Per NIST standards







Curve



Wavelength (nm)

#### **Relative Intensity vs Wavelength**

(1)	GaAsP / GaAs 655nm Red	(9)	GaAlAs 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		

#### Round Subminiature Gull Wing Lead (Square Base) LED Yellow Part No .: M11J4005 Customer: MATL: DRW: CHKD Chui DATE Dong Chang 06.12.2009 FINISH APPD: Ping Hui Sheet 3 from 9

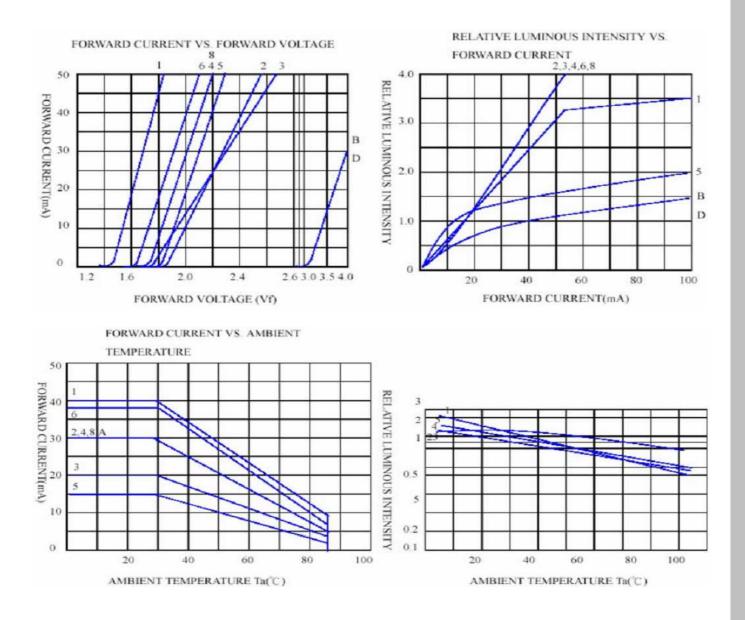
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### Round Subminiature Gull Wing Lead ( Square Base ) LED Yellow

				Yellow					
					Part No.:		Μ	11J	4005
					Customer:				
Dong	CHKD	Chang	MA	TL:	Chui		DATE		06.12.2009
Ping			FIN	ISH	Hui		Sheet		4 from 9
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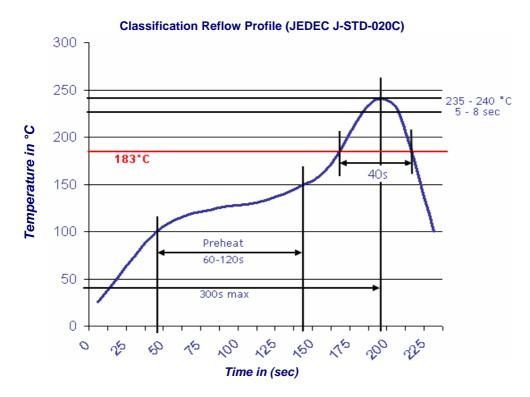
DRW: APPD:





#### **Solder Condition**

### Lead Free Solder



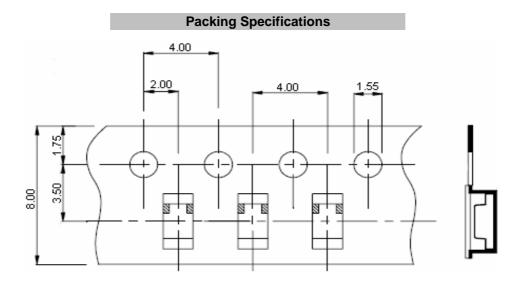
## Round Subminiature Gull Wing Lead ( Square Base ) LED

					Yellow					
						Part No.:		M11	J4005	
						Customer:				
DRW:	Dong	CHKD	Chang	MA	TL:	Chui		DATE	06.12.2009	
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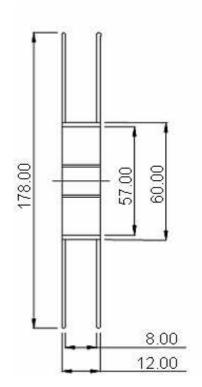
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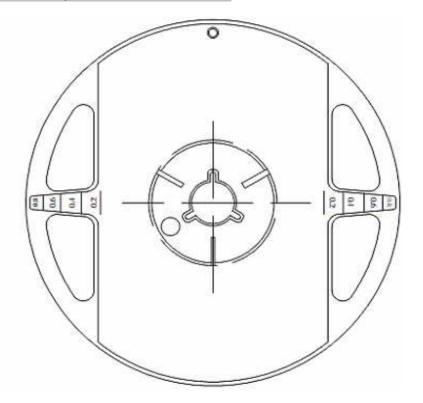






**Reel Specifications** 





# Round Subminiature Gull Wing Lead ( Square Base ) LED

			Part No.: <b>M11J4005</b>				
				Customer:			
CHKD	Chang	MATL:		Chui		DATE	06.12.2009
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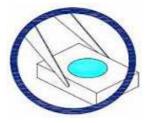




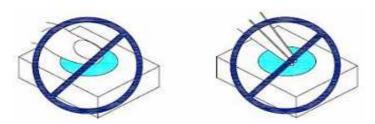
#### Handling Precautions

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.



### Round Subminiature Gull Wing Lead ( Square Base ) LED Yellow

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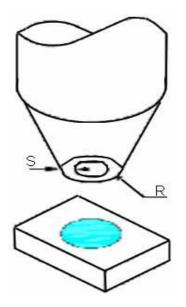
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APPD:





- 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.



# Round Subminiature Gull Wing Lead ( Square Base ) LED

			Part No.:			M11J	4005			
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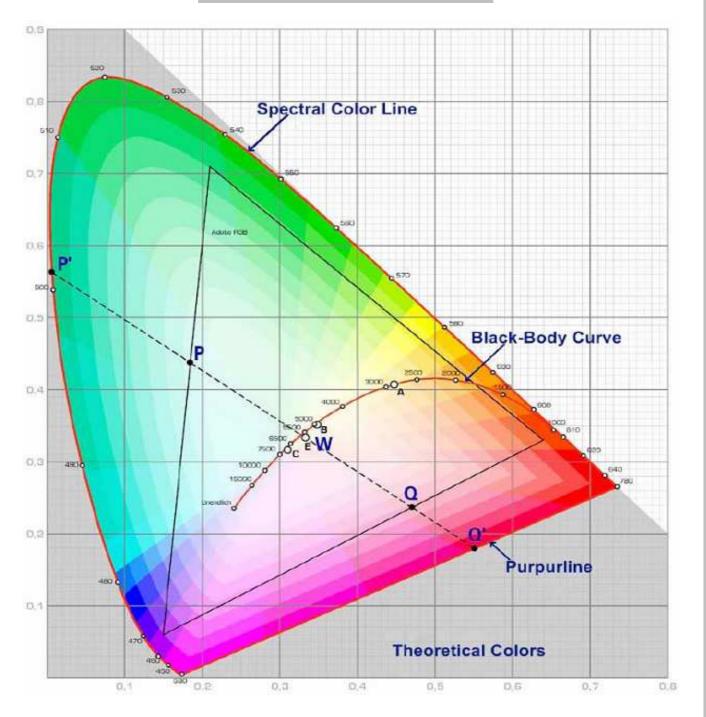
APPD:

CHKD





Color table curve



### Round Subminiature Gull Wing Lead ( Square Base ) LED

				Part No.:		M11	J4005		
				Customer:					
CHKD	Chang	MA	TL:	Chui		DATE	06.12.2009		
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Dong

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