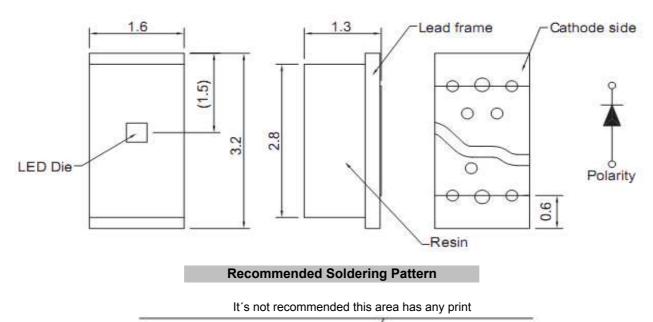


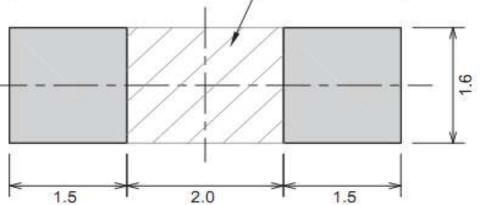
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#### Applications

#### **Technical Drawing**





Notes	: All dimensions ± 0.1mm unles		SN	IT Top View L Green	ED		
					Part No.	.: M11I	-8003
				Custome	er:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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# **Absolute Maximum Ratings**

Ta=25°C

Item	Symbol	InGaN	Unit
Power Dissipation	PD	117	mW
DC Forward Current	I <sub>F</sub>	30	mA
Plused Forward Current	I <sub>FP</sub> *	120	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>OP</sub>	-30 to 80	°C
Storage Temperature	T <sub>ST</sub>	-40 to 85	°C

\* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I<sub>F</sub>=20mA Ta=25°C

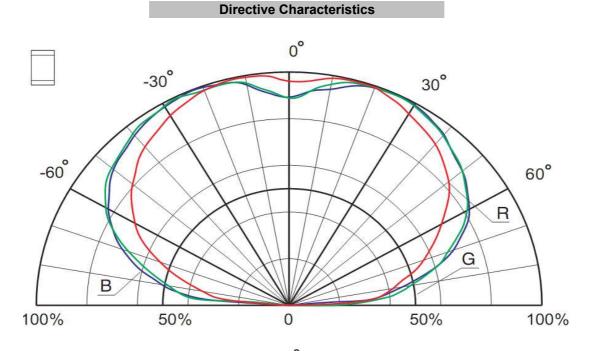
Ermitting Color		Green	
Material		InGaN	
Forward Voltage	typ.	3.3	V <sub>F</sub>
Forward voltage	max.	3.9	V <sub>F</sub>
Wavelength	λD	527	nm
	λP	520	nm
typ.	Δλ	40	nm
Color Temperature	min.		K
Color remperature	max.		K
Luminous Intensity *	min.	226.5	mcd
Luminous intensity	typ.	280	mcd
Reverse Current	max.		μA
Viewing Angle	201/2	140	

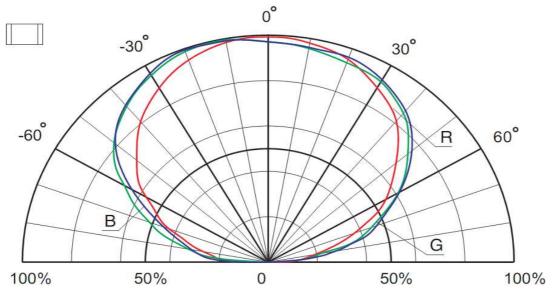
\* Per NIST standards

					SN	IT Top View Li Green	•		
					Part No.	: M11	M11F8003		
					Custome	er:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009		
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					SMT Top View LED Green		
					Part No.: <b>M11F8003</b>		8003
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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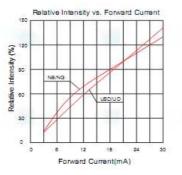
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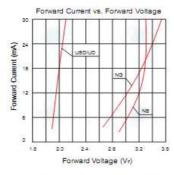
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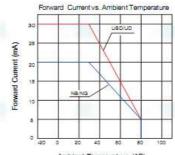




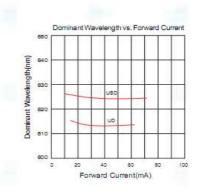
Curvs







Ambient Temperature (°C)



<sup>510</sup>	Janin	antvy	aveien	gth vs.	FORM	ard Ca	Inen
500	+	-		+	+	+	+-
490	+			+	+	+	
480 -	+	-		-	+	+	+
470	-			NB	+	+	-
460						10	

550					Τ		
540	+		+	+	+	-	$\vdash$
530			+		3	-	+
520		1		+	-		-
510	+		+	+	+	+	$\vdash$
500 L					12		16

Part No.: M11F8003   Customer: Od.12.2009					SN	IT Top View Li Green	ED
					Part No.: <b>M11F8003</b>		
Dong CHKD Chang MATL: Chui DATE 04.12.2009					Custome	r:	
	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
Ping FINISH Hui Sheet 4 from 9	Ping			FINISH	Hui	Sheet	4 from 9

DRW: APPD:

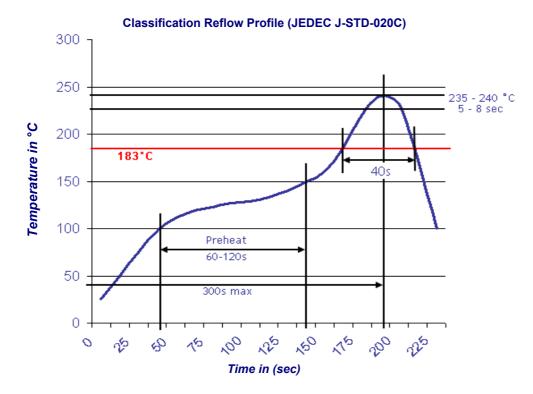
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### **Solder Condition**

## Lead Free Solder



			SMT Top View LED Green				
			Part No.	: <b>M1</b> 1	M11F8003		
			Custome	r:			
CHKD	Chang	MATL:	Chui	DATE	04.12.2009		
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Dong

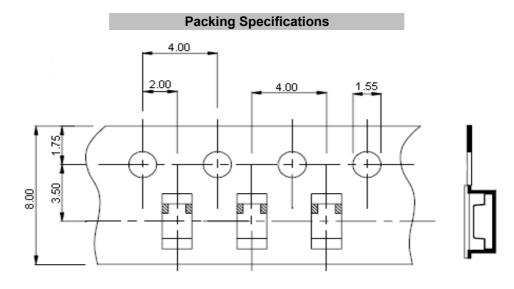
Ping

DRW:

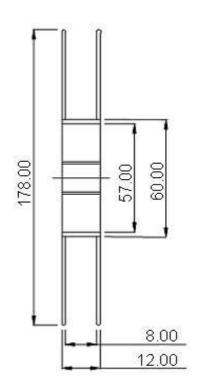
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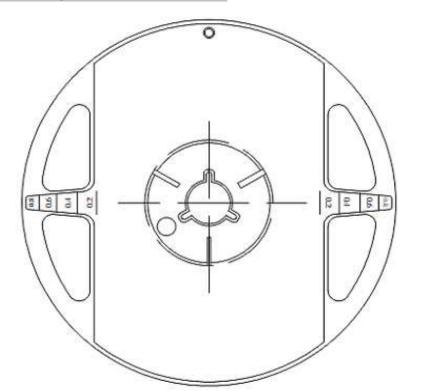






**Reel Specifications** 





					SMT Top View LED Green		
					Part No.: <b>M11F8003</b>		
					Customer:		
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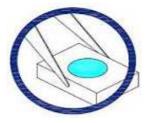




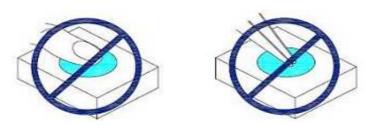
### Handling Precautions

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.



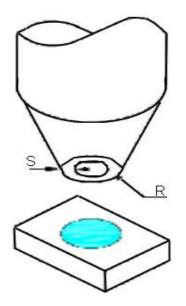
					SMT Top View LED Green		
					Part No.	rt No.: <b>M11F8003</b>	
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner 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.



	SMT Top View LED Green					
	Part No.	.: M11	IF8003			
	Custome					
MATL:	Chui	04.12.2009				
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Dong

Ping

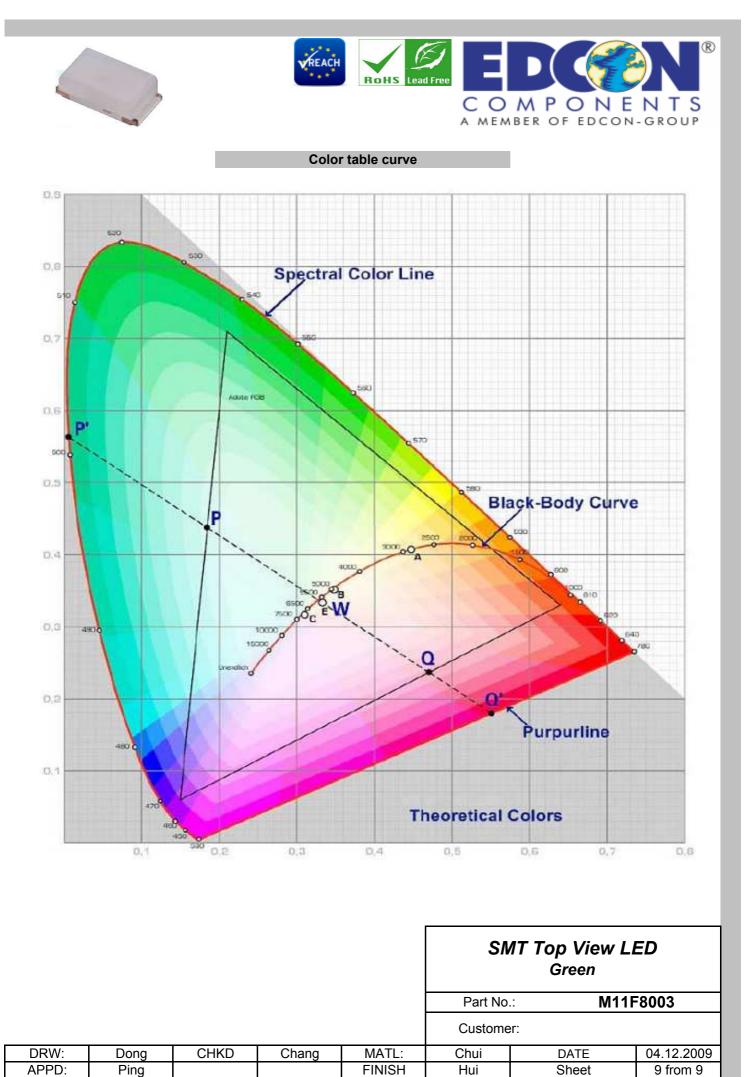
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APPD:

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