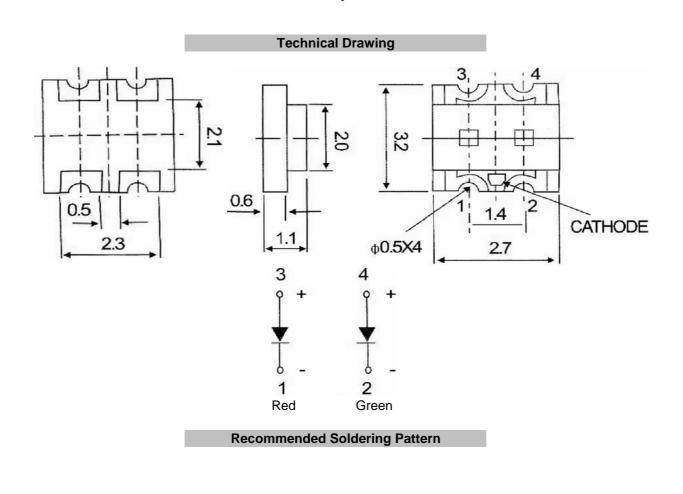


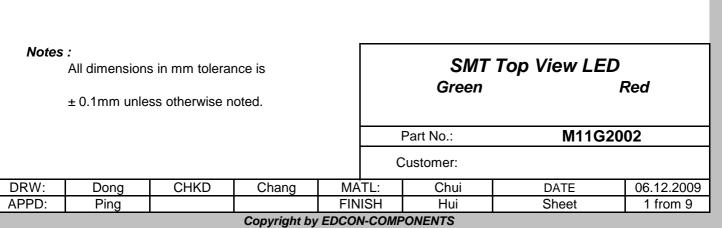


Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys





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Absolute Maximum Ratings

Ta=25°C

ltem	Symbol	GaP	AlGaInP	Unit		
Power Dissipation	P _D			mW		
DC Forward Current	I _F	2	mA			
Plused Forward Current	I _{FP} *					
Reverse Voltage	V _R	-				
Operating Temperature	ure T _{OP}		°C			
Storage Temperature	T _{ST}	-55 to	o 100	°C		

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color		Green	Red	
Material		GaP	AlGaInP	
Forward Voltage	typ.	2.1	2.0	V _F
Forward voltage	max.	2.4	2.4	V _F
Wavelength	λD	571	639	nm
-	λP			nm
typ.	Δλ			nm
Color Temperature	min.			K
Color remperature	max.		2.4 639 15 26 	K
Luminous Intensity *	min.	8	15	mcd
Lumnous intensity	typ.	15	26	mcd
Reverse Current	max.			μA
Viewing Angle	201/2		140	

* Per NIST standards

			SMT Top View LED							
				Green		Red				
				Part No.:	M11G	2002				
			C	Customer:						
CHKD	Chang	MA	TL:	Chui	DATE	06.12.2009				
		FIN	IISH	Hui	Sheet	2 from 9				
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Dong

Ping

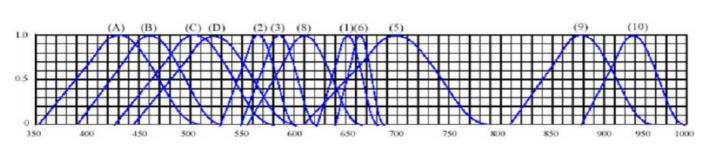
DRW:

APPD:





Curve



Wavelength (nm)

Relative Intensity vs Wavelength

(4)		(0)	
(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		

	Green Red
Part No.: M	Part No.: M11G2002
Customer:	Customer:
DRW: Dong CHKD Chang MATL: Chui DATE	CHKD Chang MATL: Chui DATE 06.12.2009
APPD: Ping FINISH Hui Shee	FINISH Hui Sheet 3 from 9

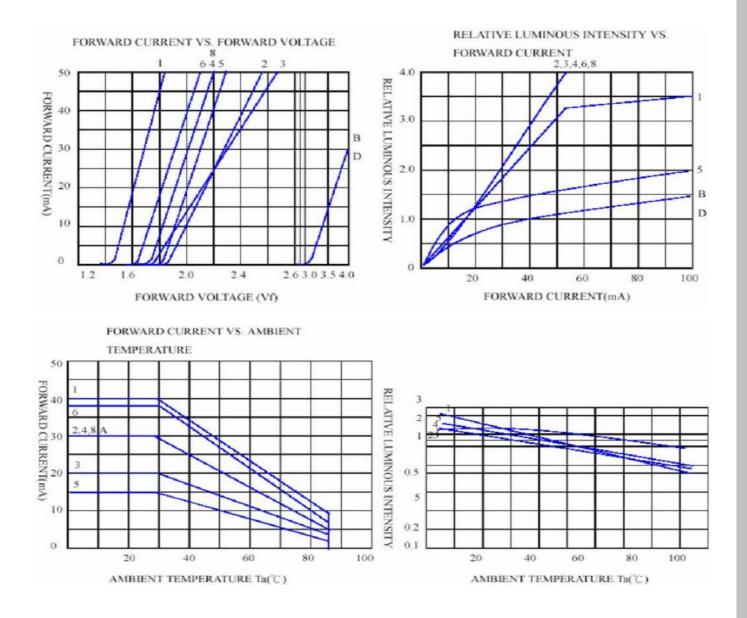
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Curve



				Γ	SMT Top View LED			
					Green Red			Red
				_	Part No.: M11G20		2002	
					C	Customer:		
DRW:	Dong	CHKD	Chang	MAT	TL:	Chui	DATE	06.12.2009
APPD:	Ping			FINISH		Hui	Sheet	4 from 9
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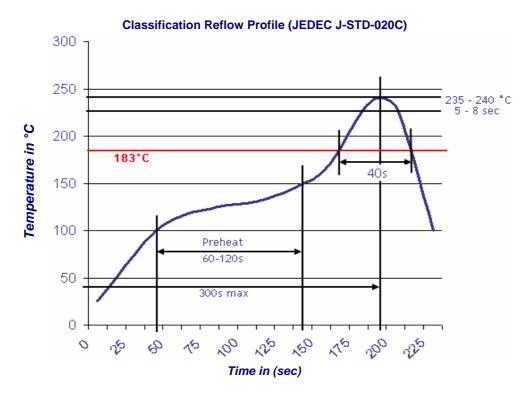
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Solder Condition

Lead Free Solder

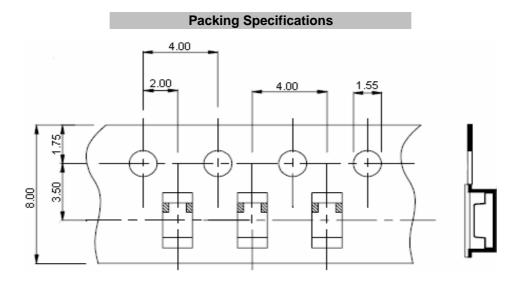


					SMT Top View LED						
					Green Red		Red				
						Part No.:	M11G20	02			
					Customer:						
DRW:	Dong	CHKD	Chang	MA	TL:	Chui	DATE	06.12.2009			
APPD:	Ping			FIN	ISH	Hui	Sheet	5 from 9			
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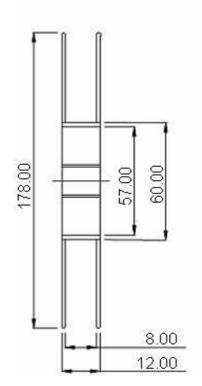
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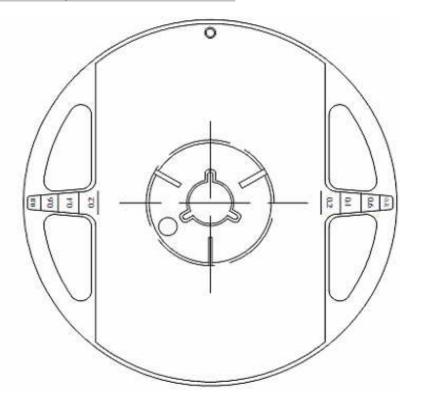






Reel Specifications





					SMT Top View LED			
					Green Red		Red	
				F	Part No.: M11G200		002	
				Γ	Customer:			
DRW:	Dong	CHKD	Chang	MAT	ΓL:	Chui	DATE	06.12.2009
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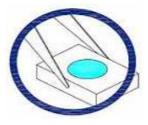




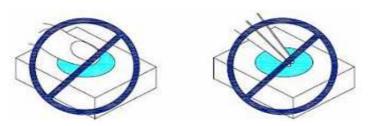
Handling Precautions

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.



			SMT Top View LED					
				Green	•	Red		
				Part No.:	M11G20	02		
			C	Customer:				
CHKD	Chang	MA	TL:	Chui	DATE	06.12.2009		
		FIN	ISH	Hui	Sheet	7 from 9		
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Dong

Ping

DRW:

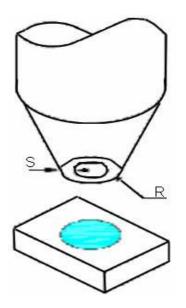
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching 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 Red							
			Part No.:	M11G20	02		
		C	Customer:				
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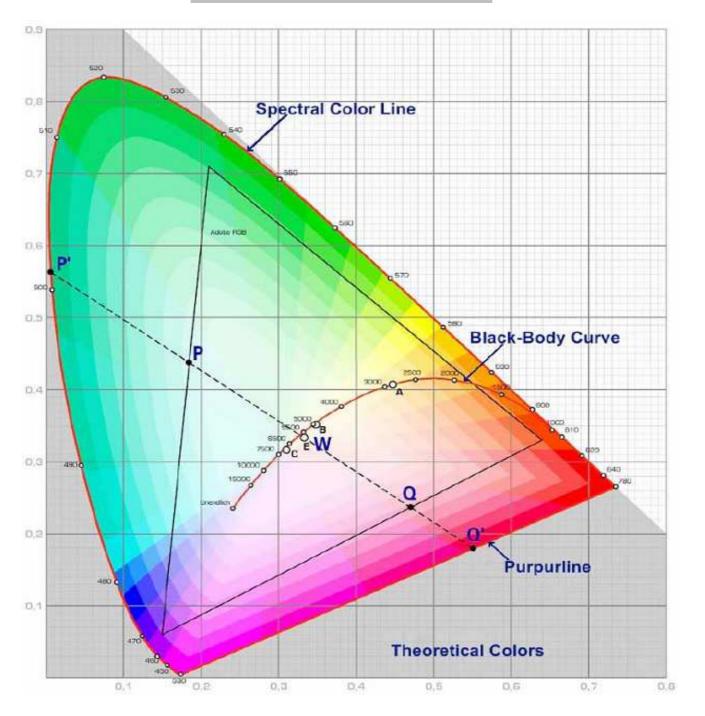
DRW:

APPD:





Color table curve



					SMT Top View LED			
					Green Re		Red	
					Part No.: M11G200		02	
					Customer:			
DRW:	Dong	CHKD	Chang	MA	TL:	Chui	DATE	06.12.2009
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