



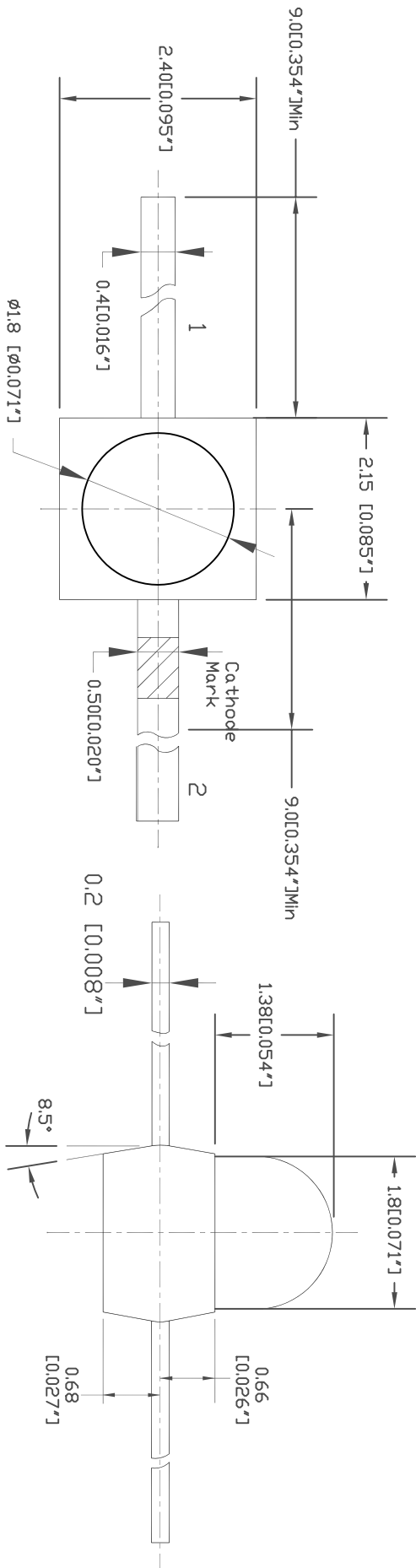
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SPC-F005.DWG

REVISONS		DOC. NO.	SPC-F005	*	Effective	7/8/02	*	Doc No	1398
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVI	DATE	
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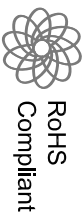
Package Dimensions



NOTES

1. All dimensions are in millimeters (inches).
2. Tolerances are ±0.1mm (0.004inch) unless otherwise noted.

ITEM	MATERIALS
Resin (mold)	Epoxy
Bonding Wire	φ 25 μm Au
Lens color	White diffrused
Dice	InGaN/SiC
Emitted color	White



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DRAWING TITLE:

Multi Color LED

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC24142	02P5887	XX
SCALE:	U.D.M.	INCHES	[mm]
NTS			
SHEET:	1	OF	1



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Absolute Maximum Ratings

(TA=25°C)

Parameter	Symbol	Value	Unit
Power dissipation	Pd	75	mW
Forward current	If	30	mA
Reverse voltage	Vr	5	V
Operating temperature range	Top	-20~+80	°C
Storage temperature range	Tstg	-20~+80	°C
Peak pulsing current (1/8 duty f=1kHz)	Ifp	125	mA
Lead Soldering Temperature	Tsol	260°C For 5 SEC (5mm[0.20"] from body)	

Electro-optical Characteristics

(TA=25°C)

Parameter	Test Condition	Symbol	Value			Unit
			Min	Typ	Max	
CIE Coordinatnes	If=20mA	X Y	0.22 0.22	0.30 0.32	0.38 0.35	--
Forward voltage	If=20mA	Vf	--	3.5	4	V
Luminous intensity	*1 If=20mA	Iv	60	90	--	mcd
Viewing angle at 50% Iv	If=10mA	2θ1/2	--	20	--	Deg
Reverse current	Vr=5V	Ir	--	--	10	µA

* 1 Note: Luminous intensity tolerances are ±10%



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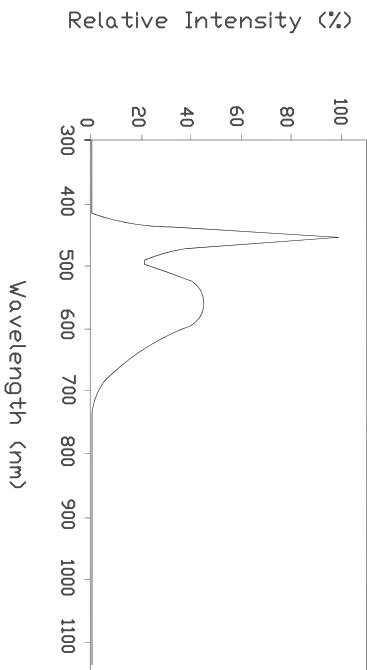
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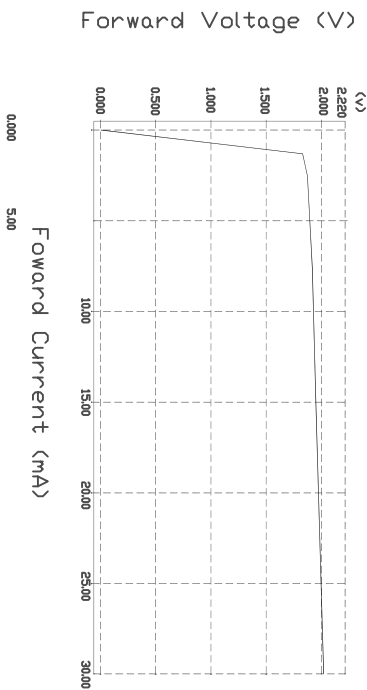
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XXXX	XXXX		XXXX	12-09-08	XXXX	12-09-08	XXXX	12-09-08	

OPTICAL CHARACTERISTIC CURVES

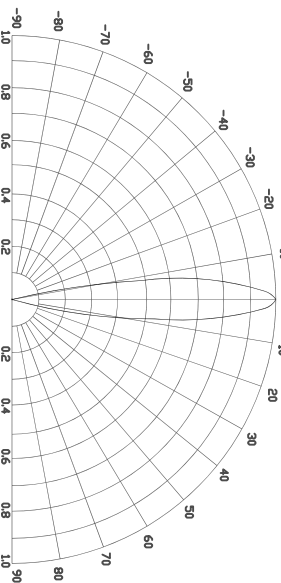
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



Directive Characteristics



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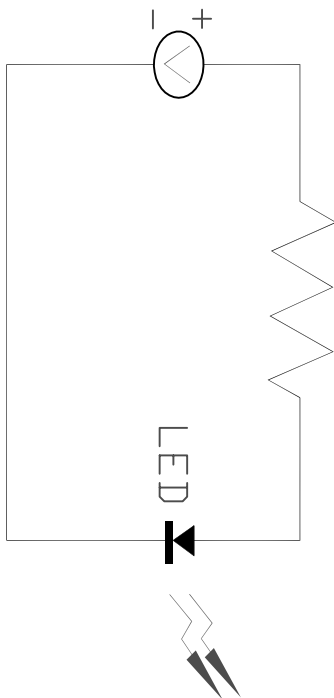


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REVOLUTIONS		DOC. NO. SPC-F005	* Effective: 7/6/02	* DCP No: 1398				
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRD	DATE
XX	XX	XXXX	XXXX	22-09-08	XXXX	22-09-08	XXXX	22-09-08
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■ Test Circuit

■ Handling Precautions

1. Over-current-proof

Customer must apply resistor for protection; otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

2.1 It is recommended to store the products in the following conditions:

Humidity: 60% R.H. Max.

Temperature: 5°C-30°C (41°F-86°F)

2.2 Shelf life in sealed bag: 12 month at <5°C-30°C and <30% R.H. after the package is Opened, the products should be used within a week or they should be keeping to stored at ≤ 20 R.H. with zip-lock sealed.

3. Baking

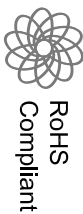
It is recommended to baking before soldering when the pack is unsealed after 72hrs. The Conditions are as followings:

3.1 60±3°C x(12-24hrs) and <5%RH, taped reel type

3.2 100±3°C x(45min-1hr), bulk type

3.3 130±3°C x(15-30min), bulk type

When you discover that the desiccant in the package has a pink color (normal=blue), you should treat them in the same conditions as (3.1-3.3)



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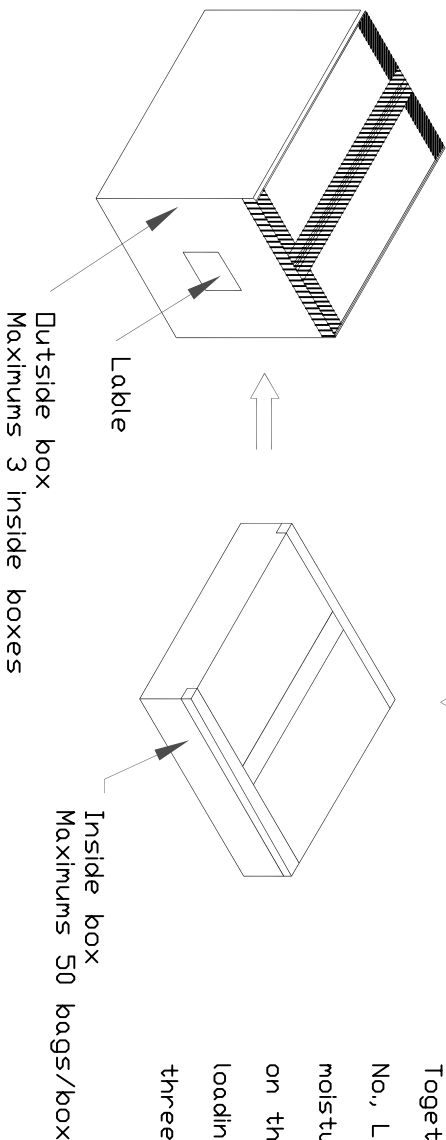
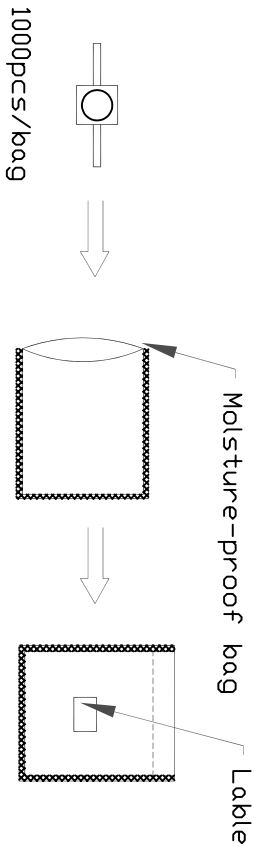
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Packaging Specifications

NOTES:

Products (numbers of products are 1,000pcs) packed in a seal off moisture-proof bag along with a desiccant one by one, 50 moisture-proof bag of maximums (total maximum number of products are 50,000pcs) packed in an inside box (size: about 350mm x about 300mm x about 105mm) and three inside boxes of maximums are put in the outside box (size: about 360mm x about 320mm x about 330mm) Together with buffer material, and it is packed. (Part No., Lot No., quantity should appear on the label on the moisture-proof bag, part No. And quantity should appear on the label on the cardboard box.) The number of the loading steps of outside box (cardboard box) has it to three steps.



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