



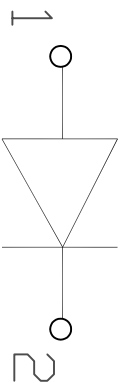
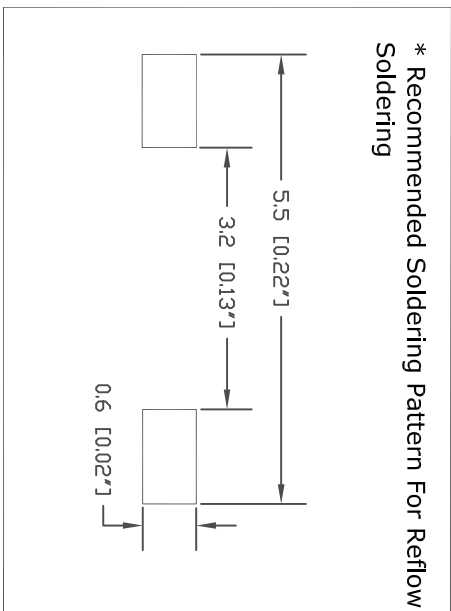
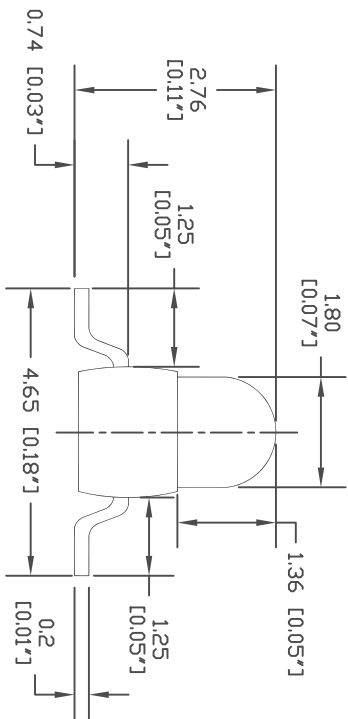
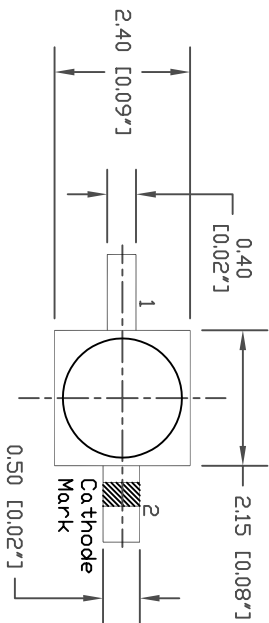
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SPC-F005.DWG

REVISONS		DOC. NO.	SPC-F005	*	Effective	7/8/02	*	Doc No	1398
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVI	DATE	
XX	XX	XXXX	XXXX	24-09-08	XXXX	24-09-08	XXXX	24-09-08	
XXXX	XXXX		XXXX	24-09-08	XXXX	24-09-08	XXXX	24-09-08	

**Package Outlines**



- 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	φ25μmAu
Lens color	diffused
Dice	InGaN/SiC
Emitted color	White



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**DRAWING TITLE:**

**Multi Color LED**

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC24134	02P5937	XX
SCALE:	NTS	U.D.M:	INCHES [mm]
SHEET:	1	OF	1



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### Absolute Maximum Ratings

(TA=25°C)

Parameter	Symbol	Value	Unit
Power dissipation	Pd	115	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 Coordinates	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	--	90	--	mcd
Viewing angle at 50% Iv	If=20mA	2θ1/2	--	20	--	deg
Reverse current	Vr=5V	Ir	--	--	10	μA

\* 1 Note: Luminous intensity tolerances are ±10%.



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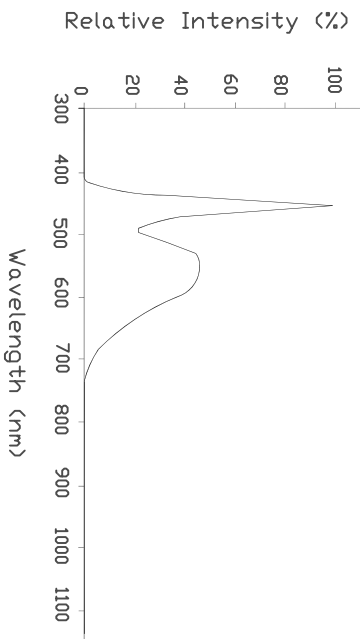
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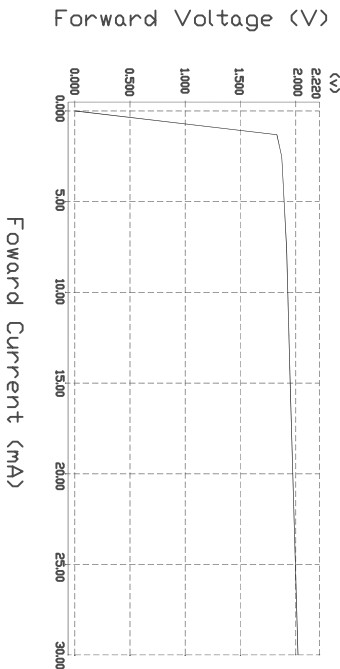
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DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRV	DATE	
XX	XX	XXXX	XXXX	16-09-08	XXXX	16-09-08	XXXX	16-09-08	
XXXX	XXXX		XXXX	16-09-08	XXXX	16-09-08	XXXX	16-09-08	

### OPTICAL CHARACTERISTIC CURVES

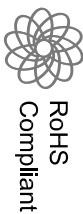
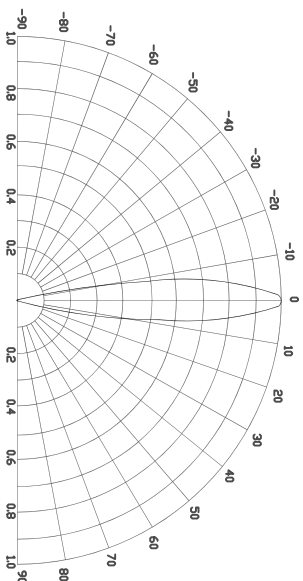
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



Directive Characteristics



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Multi - Color LED

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SCALE:	NTS	U.D.M.: INCHES [mm]	SHEET: 1 OF 1



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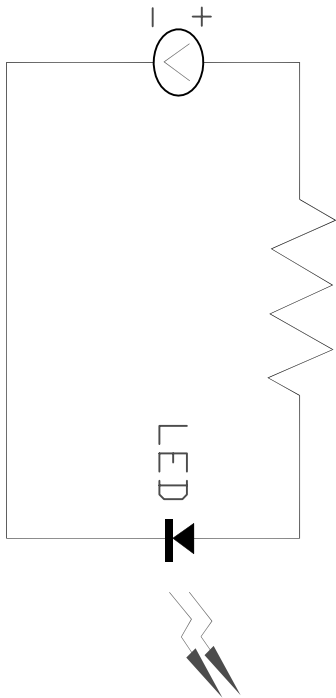
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REVOLUTIONS		DRAWN		CHECKED		DATE		APPRVD		DATE	
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REVOLUTIONS

DESCRIPTION

DOC. NO. SPC-F005 \* Effective: 7/8/02 \* DCP No.: 1398



■ 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 bags: 12 month at <5°C~30°C and <30% R.H. after the package is Dopened, the products should be used within a week or they should be keeping to stored at  $\leq 20$  R.H. with zip-lock sealed.

3. Baking

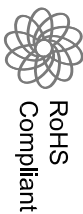
It is recommended to baking before soldering when the pack is unsealed after 72hrs. The Conditions are as followings:

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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NTS			

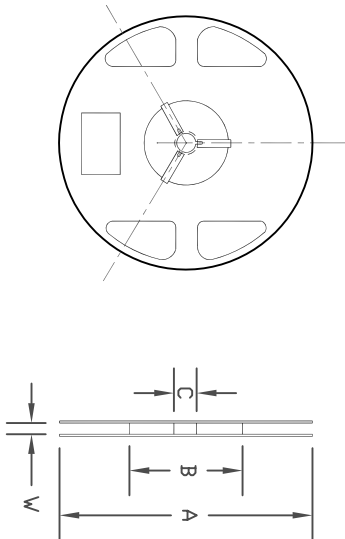
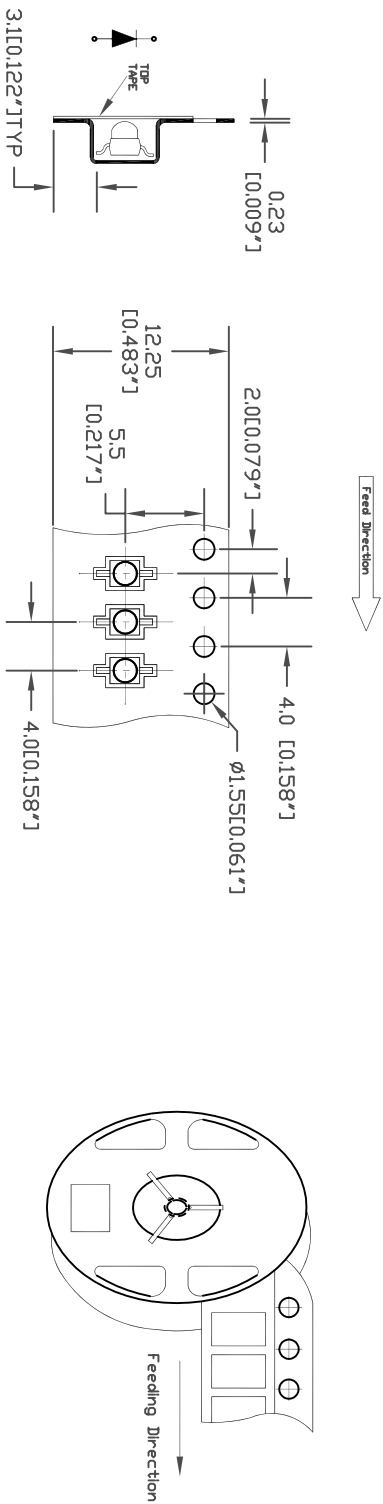


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XXXX	XXXX		XXXX	24-09-08	XXXX	24-09-08	XXXX	24-09-08

• Packing Specifications



Dimensions per ANSI/EIA Standard RS-481	
All dimensions are in Millimeters (Inches).	
A	18017.091
B	6012.361
C	13510.531
W	12510.501

Thickness of top cover tape  
0.110.004\*1 MAX

- NOTES:
1. Empty component pockets are sealed with top cover tape!
  2. Minimum leader length at both ends of the tape is 450mm!
  3. The maximum number of missing lamps is two!
  4. The Cathode is oriented towards the tape sprocket hole
  5. In accordance with ANSI/EIA RS-481 specifications.



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Multi Color LED

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC24130	02P5933	XX

SCALE: NTS U.D.M.: INCHES [mm] SHEET: 1 OF 1