



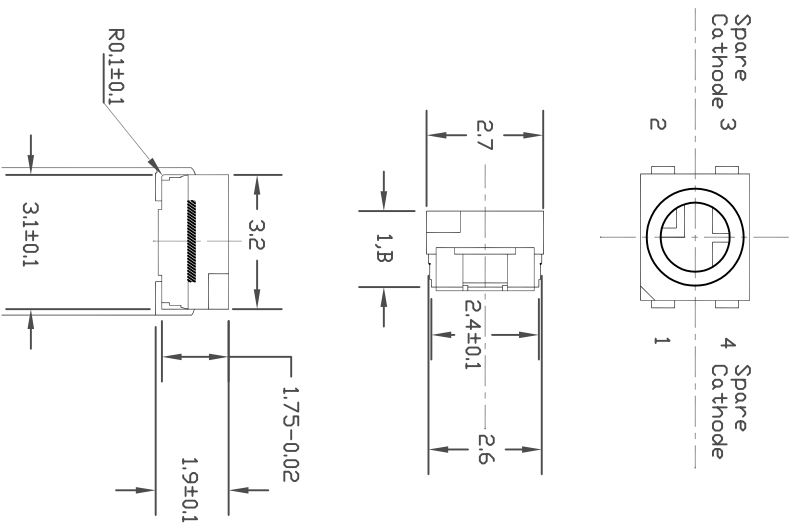
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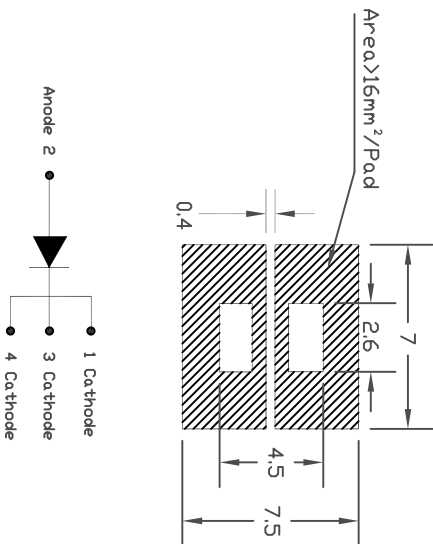
SPC-F005.DWG

REVISIONS		DCI. NO.	SPC-F005	*	Effective	7/8/02	*	DCI No	1398
DCP #	REV	DESCRIPTION	DATE	CHECKD	DATE	APPRVI	DATE		
XX	XX	XXXX	13-09-08	XXXX	13-09-08	XXXX	13-09-08		
XXXX	XXXX		13-09-08	XXXX	13-09-08	XXXX	13-09-08		

Package Outlines



RECOMMEND PAD LAYOUT



ITEM	MATERIALS
Resin (mold)	Epoxy
Bonding Wire	∅ 25 μm Au
Lens color	Water Clear
Printed circuit board	BT (White)
Dice	Blue InGaN/SiC

NOTES:

- All dimensions are in millimeters (inches);
- Tolerances are ±0.2mm (0.008inch) unless otherwise noted.



Multi Color LED

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DRAWING TITLE:		SCALE: NTS	
Multi Color LED		INCHES [mm]	
SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	MC24180	02P5959	XX
U.D.M. INCHES [mm]		SHEET: 1 OF	



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SPC-F005JLVG

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XXXX	XXXX	XXXX	22-09-08	XXXX	22-09-08	XXXX	22-09-08

DESCRIPTION
XXXX

Absolute Maximum Ratings

(TA=25°C)

Parameter	Symbol	Value	Unit
Power dissipation	Pd	96	mW
Forward current	If	30	mA
Reverse voltage	Vr	5	V
Operating temperature range	Top	-40~+100	°C
Storage temperature range	Tstg	-40~+100	°C
Peak pulsing current (1/8 duty f=1kHz)	Ifp	125	mA

Electro-optical Characteristics

(TA=25°C)

Parameter	Test Condition	Symbol	Value		Unit
			Min	Max	
Wavelength at peak emission	If=20mA	λ_{peak}	--	470	nm
Spectral half bandwidth	If=20mA	$\Delta\lambda$	--	20	nm
Dominant wavelength	If=20mA	λ_{dom}	--	465	nm
Forward voltage	If=20mA	Vf	--	3.4	V
Luminous intensity	*1 If=20mA	Iv	--	200	mcad
Viewing angle at 50% Iv	If=10mA	$2\theta_{1/2}$	--	120	Deg
Reverse current	Vr=5V	Ir	--	10	μ A

* 1 Note: Luminous intensity tolerances are $\pm 10\%$



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Multi Color LED

ELECTRONIC FILE

REV

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02P5959

XX

XXXX

22-09-08

A

MC24180

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XXXX

DATE:

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U.D.M.: INCHES [mm]

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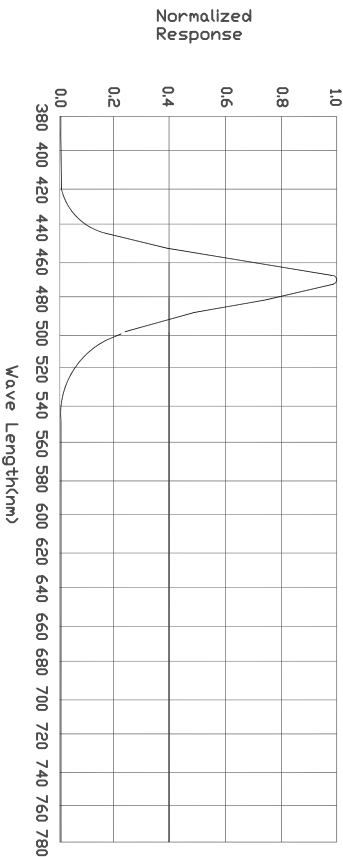
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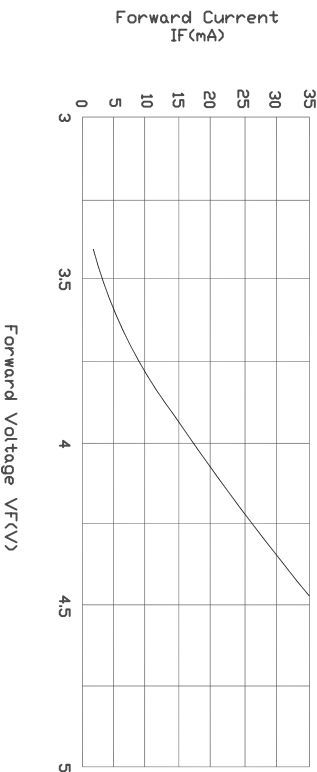
REVISIONS		DOC. NO. SPC-F005	* Effective: 7/8/02	* DCP No: 1398				
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRD	DATE
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XXXX	XXXX		XXXX	25-09-08	XXXX	25-09-08	XXXX	25-09-08

OPTICAL CHARACTERISTIC CURVES

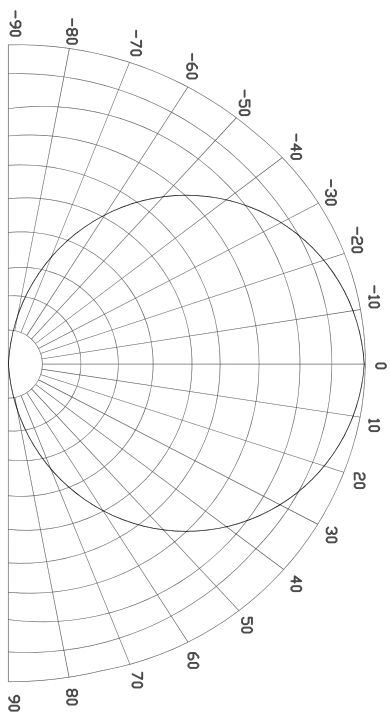
Spectral Radiance (Peak @ 470nm)



Forward Current vs Forward Voltage



Directive Characteristics



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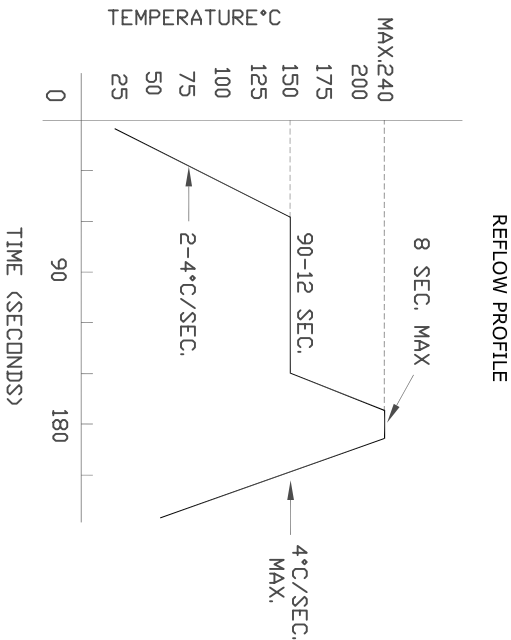


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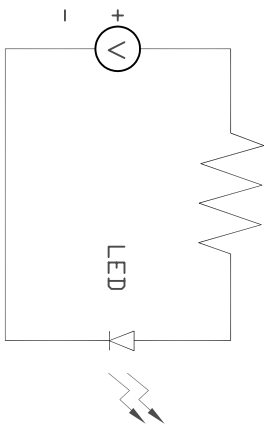
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• Reflow Temp/Time



• Test Circuit



• Handling Precautions

- Over-current-proof
Customer must apply resistors for protection; otherwise slight voltage shift will cause big current change (Burn out will happen).
- Storage
2.1 It is recommended to store the products in the following conditions:
Humidity: 60% RH, Max. Temperature : 5°C~30°C (41°F~86°F)

• Soldering Iron

Basic spec is ≤ 5sec when 260°C. If temperature is higher, time should be shorter (+10°C → -1sec). Power dissipation of Iron should be smaller than 15W and temperatures should be controllable. Surface temperature of the device should be under 230°C.

3. Baking

It is recommended to baking before soldering when the pack is unsealed after 72hrs. The Conditions are as follows:
 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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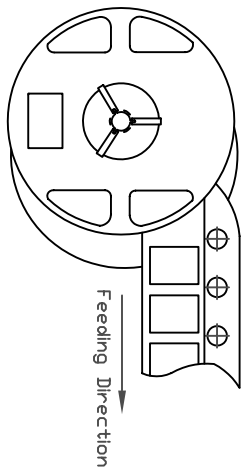
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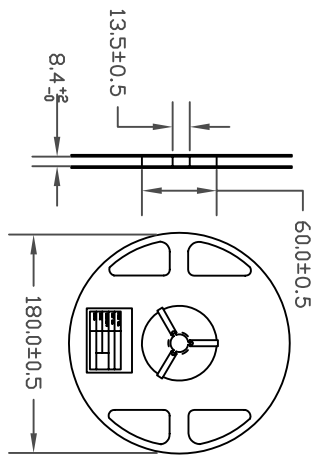
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SMD Chip LED Lamps Packaging Specifications

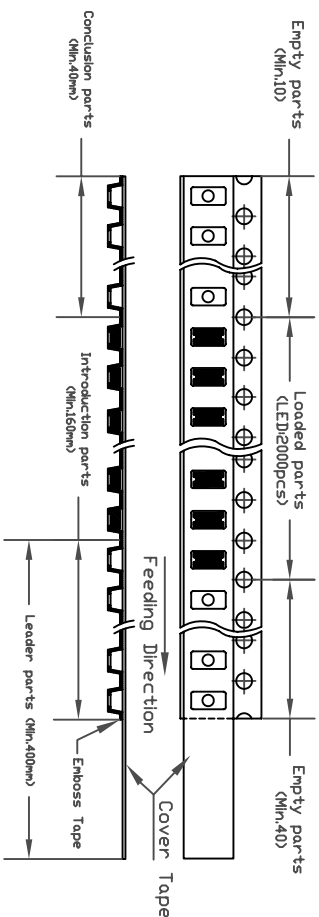
• Feeding Direction



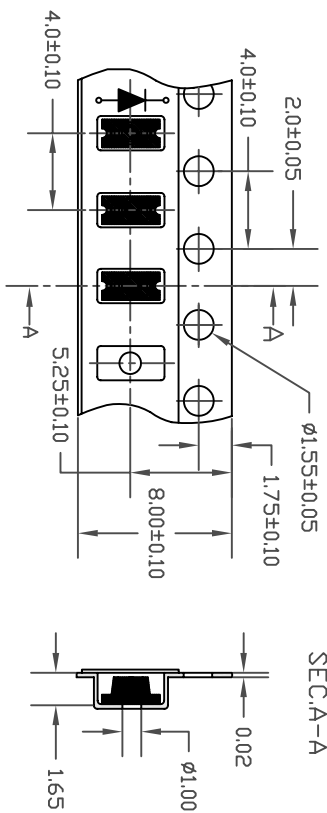
• Dimensions of Reel (Unit: mm)



• Arrangement of Tape



• Dimensions of Tape (Unit: mm)



- NOTES
1. Empty component pockets are sealed with top cover tape
 2. The maximum number of missing lamps is two
 3. The cathode is oriented towards the tape sprocket hole in accordance with ANSI/EIA RS-481 specifications
 4. 2,000 pcs/Reel



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