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\* Effective: 7/8/02 \*

DCP No: 1398

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Soldering

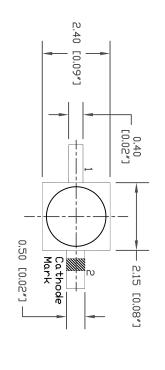
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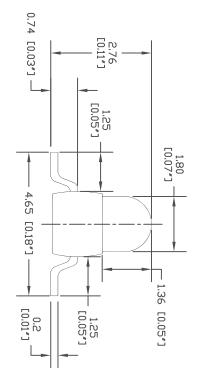
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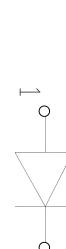
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\* Recommended Soldering Pattern For Reflow

## Package Outlines







Emitted color	Dice	Lens color	Bonding Wire	Resin (mold)	ITEM	•
White	InGaN/SiC	diffused	ø25µmAu	Epoxy	MATERIALS	

#### NOTES:

- ភៈភ All dimensions are in millimeters (inches); Tolerances are  $\pm 0.1$ mm (0.004inch) unless otherwise noted.

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DATE:   DRAWING TITLE:   Multi Color LED			PURPOSES ONLY.	- בי זרי רייניינר	TIMENULLINU ARE	SPECIFIED,	UNLESS OTHERWISE	TOLERANCES:
Multi Color LED  G. ND.  MC24134  COLOR LED  ELECTRONIC FILE REV  O2P5937  XX  ITS  U.D.M.: INCHES [mm]  SHEET: 1 DF 1					XXXX	CHECKED BY:	XXXX	DRAWN BY:
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ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABLITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

DISCLAIMER:

RoHS Compliant



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Absolute
Maximum
Ratings

 $(TA=25^{\circ}C)$ 

Parameter	Symbol	Value	Unit
Power dissipation	Pd	115	πW
Forward current	If	30	mA
Reverse voltage	٧r	5	<
Operating temperature range	Тор	-20~+80	°C
Storage temperature range	Tstg	-20~+80	°C
Peak pulsing current (1/8 duty f=1kHz)	Ifp	125	™A
Lead Soldering Temperature	Tsol	260°C For 5 SEC (5mm[0.20°] from	(5mm[0,20"] from
		body)	٠ 

# **Electro-optical Characteristics**

 $(TA=25^{\circ}C)$ 

	Test	C mba		Value		:
Parameter	Condition	Эушрог	Min	Тур   Мах	Мах	Unit
CIE Coordinates	If=20mA	Υ×	0.22 0.22	0.30 0.32	0.38 0.36	
Forward voltage	If=20mA	Vf	1	3.5	4	<
Luminous intensity *1	*1 If=20mA	Ιν	1	90		mcd
Viewing angle at 50% Iv	If=20mA	201/2		20		deg
Reverse current	√r=5V	'n	+	1	10	Ā

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



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U.D.M.: INCHES [mm]			MC24134	ELI	Multi Color	
SHEET: 1 0			02P5937	ECTRONIC FILE	LED	

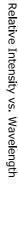


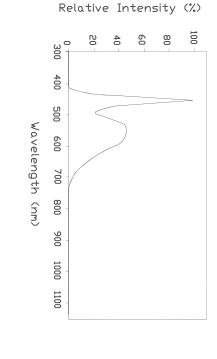
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# **OPTICAL CHARACTERISTIC CURVES**





Forward Voltage (V)

1.000

0.000

5,00

10.00

15.00

25.00

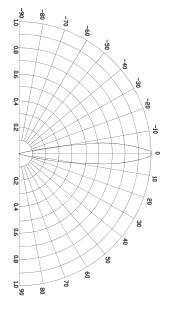
30.00

Foward Current (mA)

2.220 2.000

Forward Current vs. Forward Voltage

## **Directive Characteristics**





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SHEET: 1 OF			02P5937	ECTRONIC FILE	r LED	
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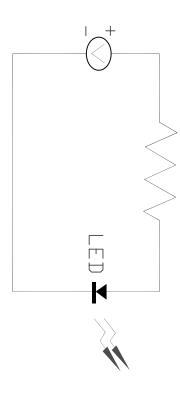


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# Handling Precautions

## 1. Over-current-proof

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

## 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 □pened, the products should be used within a week or they should be keeping to stored at ≦20 R.H. with zip-lock sealed.

### Baking

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

3.1  $60\pm3$  °C  $\times(12-24hrs)$  and <5%RH, taped reel type 3.2  $100\pm3$  °C  $\times(45min-1hr)$ , bulk type 3.3  $130\pm3$  °C  $\times(15-30min)$ , 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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		MC24134			Multi Colo	
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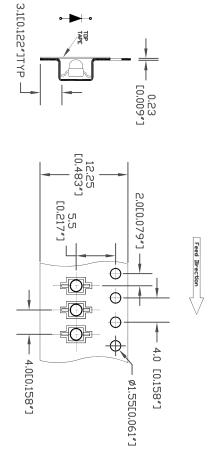


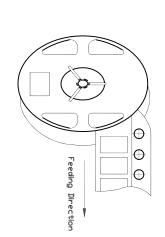
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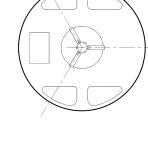
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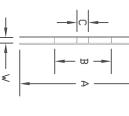
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## **Packing Specifications**









€	С	В	>	Dimer Stand All dir Millim
12,5[0,50]	13.5[0.53]	60[2,36]	180[7.09]	Dimensions per ANSI/EIA Standard RS-481 All dimensions are in Millimeters (inches).

Thickness of top cover tape 0.1[0.004"] MAX

### NOTES:

- Empty component pockets are sealed with top cover tape; Minimum leader length at both ends of the tape is 450mm; The maximum number of missing lamps is two; The Cathode is oriented towards the tape sprocket hole in accordance with ANSI/EIA RS-481 specifications.

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