Kingbright

T-1 (3mm) SOLID STATE LAMP

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

P/N: L-934MWC WHITE

Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.

Description

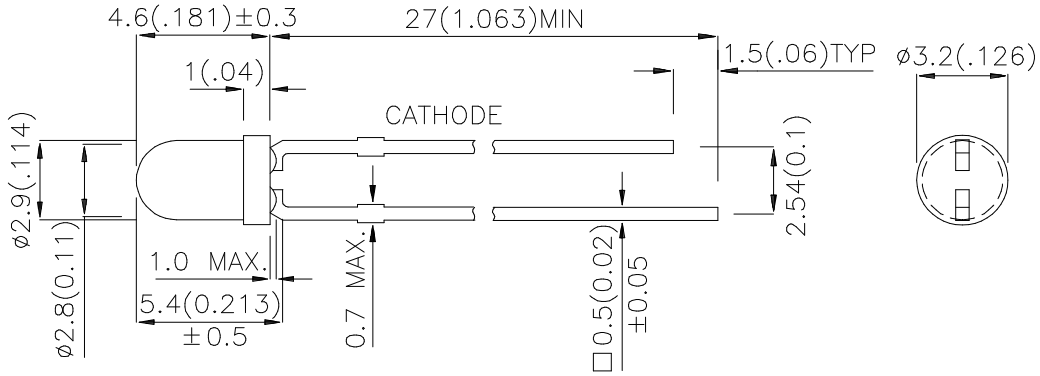
The source color devices are made with GaN on SiC Light Emitting Diode.

Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
L-934MWC	WHITE (GaN)	WATER CLEAR	50	180	50°

Notes:
1.θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2.Luminous Intensity / Luminous Flux: +/-15%

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
V_F [1]	Forward Voltage	White	3.8	4.5	V	I_F=20mA
I_R	Reverse Current	White		10	uA	V_R = 5V
X [2]	Chromaticity Coordinates	White	0.33			
Y [2]		White	0.34			
C	Capacitance	White	100		pF	V_F=0V;f=1MHz

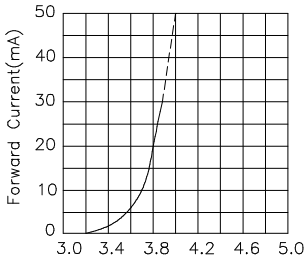
Notes:
1.Forward Voltage: +/-0.1V.
2.Chromaticity Coordinates X, Y: +/-0.01.

Absolute Maximum Ratings at T_A=25°C

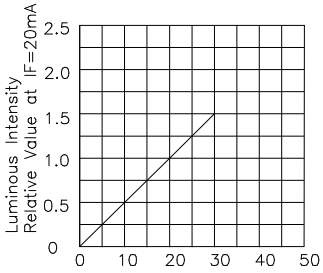
Parameter	White	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

Notes:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.

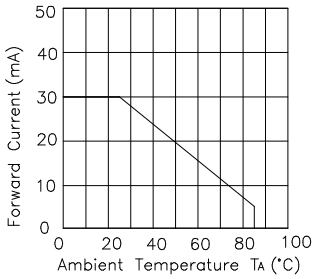
White **L-934MWC**



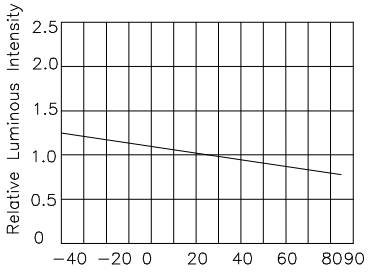
FORWARD CURRENT Vs.
FORWARD VOLTAGE



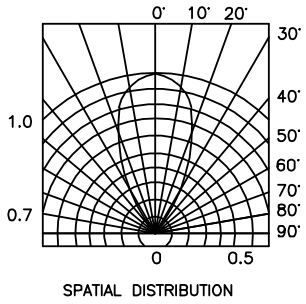
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE

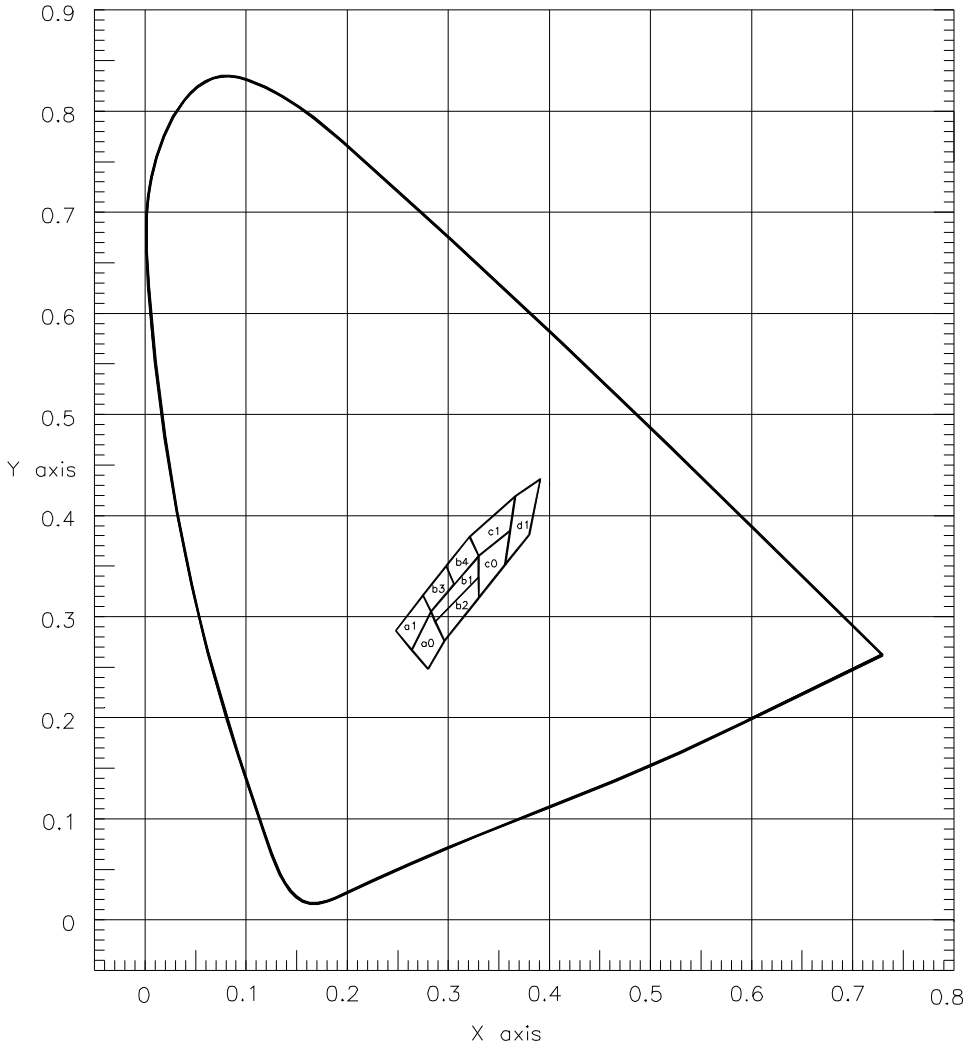


LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

L-934MWC



a1				
X	0.248	0.275	0.283	0.264
Y	0.286	0.321	0.305	0.267

a0				
X	0.264	0.283	0.296	0.280
Y	0.267	0.305	0.276	0.248

b3				
X	0.275	0.298	0.306	0.283
Y	0.321	0.350	0.332	0.305

b1				
X	0.283	0.330	0.330	0.287
Y	0.305	0.360	0.339	0.295

b2				
X	0.287	0.330	0.330	0.296
Y	0.295	0.339	0.318	0.276

b4				
X	0.298	0.321	0.330	0.306
Y	0.350	0.379	0.360	0.332

c1				
X	0.321	0.366	0.361	0.330
Y	0.379	0.419	0.385	0.360

c0				
X	0.330	0.361	0.356	0.330
Y	0.360	0.385	0.351	0.318

d1				
X	0.366	0.391	0.380	0.356
Y	0.419	0.436	0.381	0.351

Ta=25°, IF=20mA Measurement Uncertainty of the Color Coordinates:+/−0.01