

TAPE AND REEL SURFACE MOUNT CHIP LED LAMPS

SURFACE MOUNT CHIP LED LAMP SPECIFICATION

DEVICE NUMBER: BL-XUB361-TR9

VERSION: 1.0 / 2001.06.07

FEATURES:

Compatible with automatic placement equipment

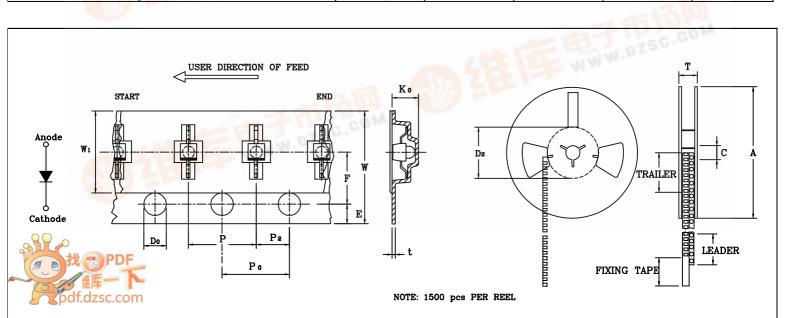
Surface Mount assembly lamp

High efficiency low power consumption

Long life solid state reliability

TAPPING AND PACKAGING SPECIFICATION

里里丁 175	C.C.C.	SPECIFICATION			
ITEM WWW.DZS	SYMBOL	Minimum		Maximum	
673 41		mm	inch	mm	inch
Tape Feed Hole Diameter (DIA)	D_0	1.40	0.055	1.55	0.061
Feed Hole Location	Е	1.65	0.065	1.85	0.072
Centers Line Dimensions Length Direction	F	5.45	0.215	5.55	0.218
Compartment Depth	K_0	3.10	0.122	3.20	0.126
Compartment Pitch	P	3.90	0.153	4.10	0.161
Sprocket Hole Diameter	P_0	3.90	0.153	4.10	0.161
Centers Line Dimensions Length Direction	P ₂	1.95	0.076	2.05	0.080
Carrier Tape Thickness	t	-	-	0.30	0.012
Carrier Tape Width	W	12.00	0.472	12.30	0.484
Flange Diameter	A	178.0	7.008	180.0	7.087
Hub Spindle Hole	С	12.50	0.492	13.50	0.531
Hub Diameter	D_2	20.00	0.788	21.50	0.846
Fixing Tape Width	\mathbf{W}_1	9.00	0.354	9.30	0.366
Flange Space Between Flanges	G.C. T	16.00	0.629	18.40	0.724
Compartment Length	A_0	1.97	0.077	2.05	0.080
Compartment Width	B_0	6.40	0.250	6.50	0.256



BRIGHT LED ELECTRONICS CORP.

SURFACE MOUNT CHIP LED LAMP SPECIFICATION

●COMMODITY: AXIAL TYPE LED

DEVICE NUMBER: BL-XUB361-F9 **VERSION**: 1.0 / 2001.06.07

●ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta=25°C)

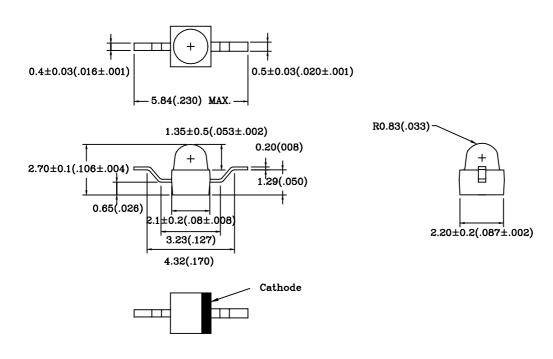
Chip Peak Lens		A	Absolute Maximum Rating			Electro-optical Data (At 20mA)		Viewing Angle		
Emitted Color	Wave Length λ P(nm)	Appearance	Δ λ (nm)	Pd (mW)	If (mA)	Peak If(mA)	Vfo	(V) Max.	Iv Typ. (mcd)	2 \theta 1/2 (deg)
Ultra Red	645	Water Clear	20	80	30	150	2.0	2.6	150.0	35

Remark: Viewing angle is the Off-axis angle at which the luminous intensity is half the axial luminous intensity.

●ABSOLUTE MAXIMUN RATINGS (Ta=25°C)

Reverse Voltage	5V
Reverse Current (-Vr=5V)	
Operating Temperature Range	
Storage Temperature Range	
Preheating Temperature	
Soldering Temperature	

●PACKAGE DIMENSIONS



NOTES: 1.All dimensions are in millimeters (inches).

- 2. Tolerance is \pm 0.25mm (0.01") unless otherwise specified.
- 3. Specifications are subject to change without notice.

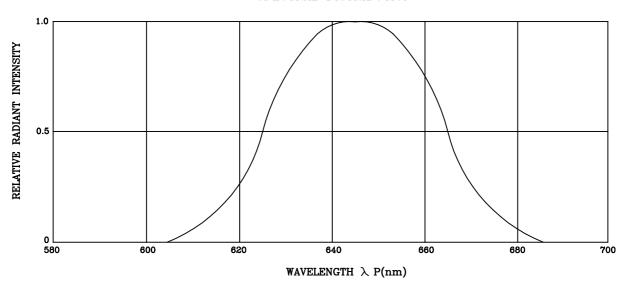


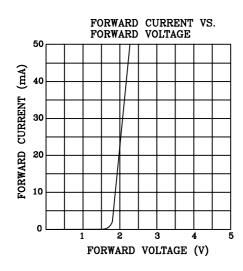
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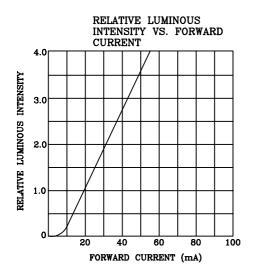
TYPICAL CHARACTERISTICS

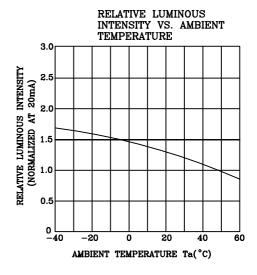
DEVICE NUMBER: BL-XUB361-TR9

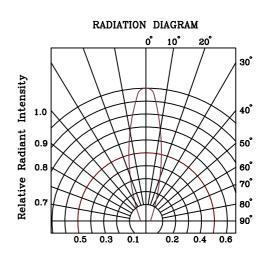
SPECTRAL DISTRIBUTION











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RELIABILITY TEST

DEVICE NO.: BL-XUB361-TR9

Classification	Test Item	Reference Standard	Test Conditions	Result
	Operation Life	MIL-STD-750:1026 MIL-STD-883:1005 JIS C 7021 :B-1	Connect with a power If=20mA Ta=Under room temperature Test time=1,000hrs	0/20
Endurance Test	High Temperature High Humidity Storage	MIL-STD-202:103B JIS C 7021 :B-11	Ta=+65°C±5°C RH=90%-95% Test time=1,000hrs	0/20
	High Temperature Storage	MIL-STD-883:1008 JIS C 7021 :B-10	High Ta=+85°C±5°C Test time=1,000hrs	0/20
	Low Temperature Storage	JIS-C-7021 :B-12	Low Ta=-35°C±5°C Test time=1,000hrs	0/20
	Temperature Cycling	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1010 JIS C 7021 :A-4	-35°C ~ +25°C ~ +85°C ~ +25°C 60min 20min 60min 20min Test Time=5cycle	0/20
Environmental Test	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	$+85^{\circ}\text{C}\pm5^{\circ}\text{C} \sim -35^{\circ}\text{C}\pm5^{\circ}\text{C}$ 20min 20min Test Time=10cycle	0/20
	Solder Resistance	MIL-STD-202:201A MIL-STD-750:2031 JIS C 7021 :A-1	Preheating: 140°C-160°C, within 2 minutes. Operation heating: 235°C (Max.), within 10 seconds. (Max.)	0/20

JUDGMENT CRITERIA OF FAILURE FOR THE RELIABILITY

Measuring items	Symbol	Measuring conditions	Judgement criteria for failure
F0rward voltage	VF (V)	IF=20mA	Over Ux1.2
Reverse current	IR(uA)	VR=5V	Over Ux2
Liminous intensity	IV (mcd)	IF=20mA	Below SX0.5

Note: 1.U means the upper limit of specifide characteristics. S means initial value.

2.Measurment shall be taken between 2 hours and after the test pieces have been returned to normal ambient conditions after completion of each test.