

LED DISPLAY SPECIFICATION

● COMMODITY : 10.0*20.16mm LIGHT BAR

● DEVICE NUMBER : BA-8D9UW

VERSION : 1.0/2002.07.31

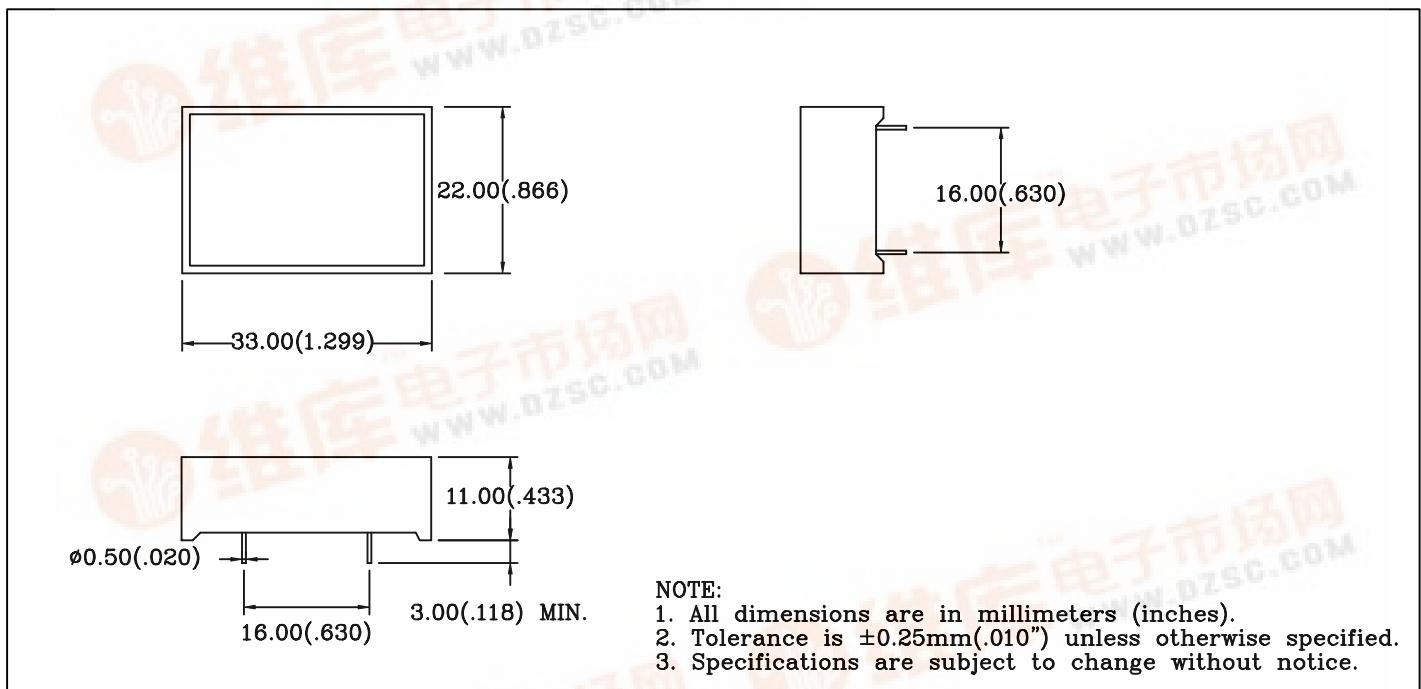
● ELECTRICAL AND OPTICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

Chip		Absolute Maximum Rating				Electro-optical Data (At 10mA)		Surface Color	Segment Color
Emitted Color	Peak Wave Length $\lambda_P(\text{nm})$	$\Delta \lambda$ (nm)	Pd (mW)	If (mA)	Peak If(mA)	Vf(V)	Iv Typ. (mcd)		
		Typ.	Max.			Typ.	Max.		
Super Red	660	20	310	30	150	6.8	10.0	14	White

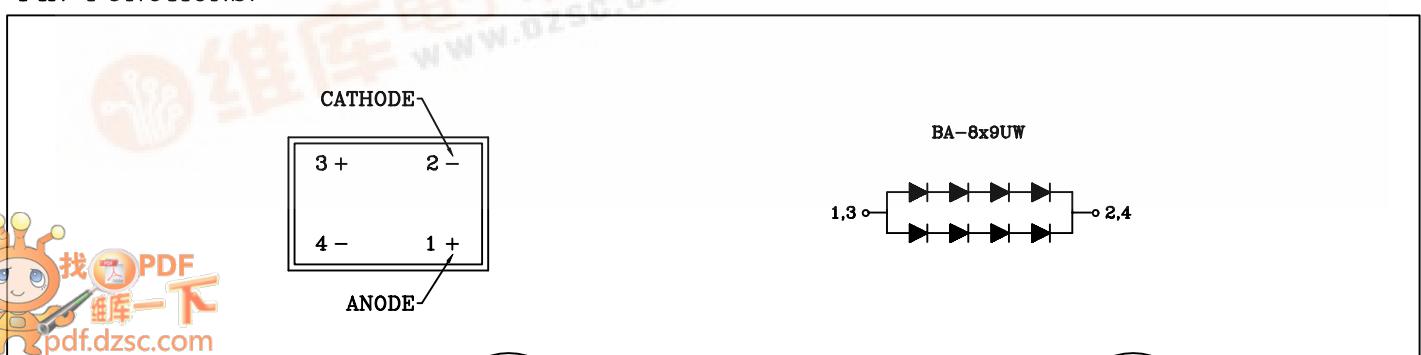
● ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

Reverse Voltage	5V
Reverse Current (- $V_r=5\text{V}$)	100 μA
Operating Temperature Range	-40°C ~ 80°C
Storage Temperature Range	-40°C ~ 85°C
Lead Soldering Temperature (1/16" From Body).....	260°C For 5 Seconds

PACKAGE DIMENSIONS:



PIN FUNCTIONS:

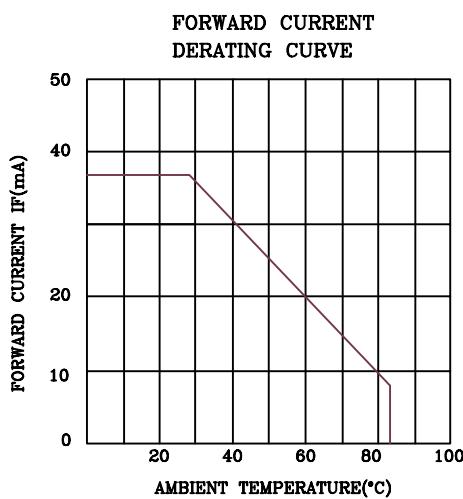
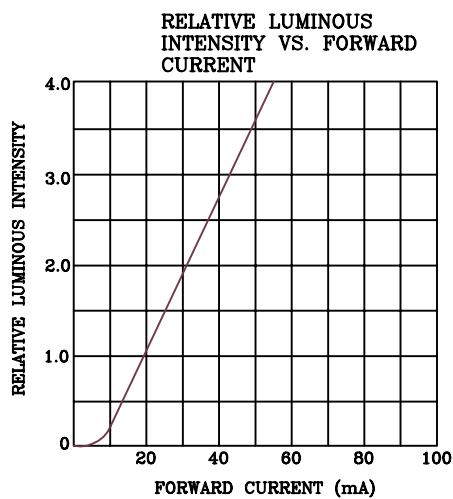
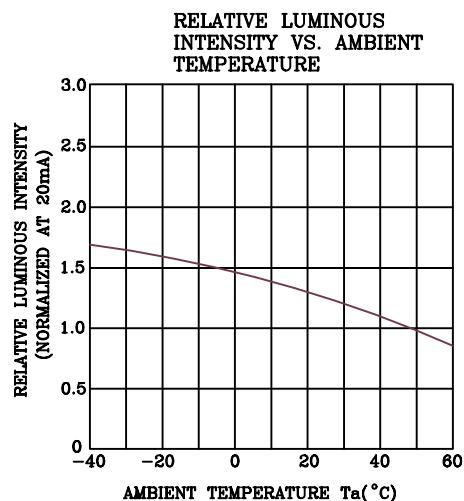
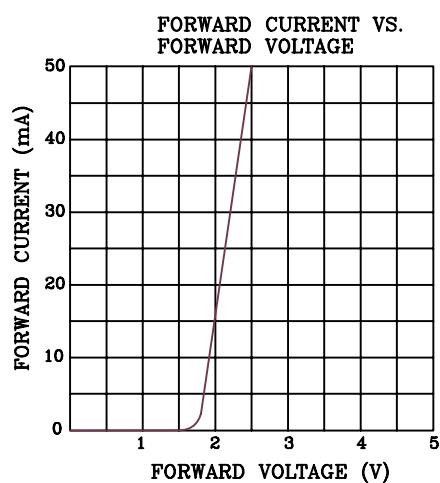
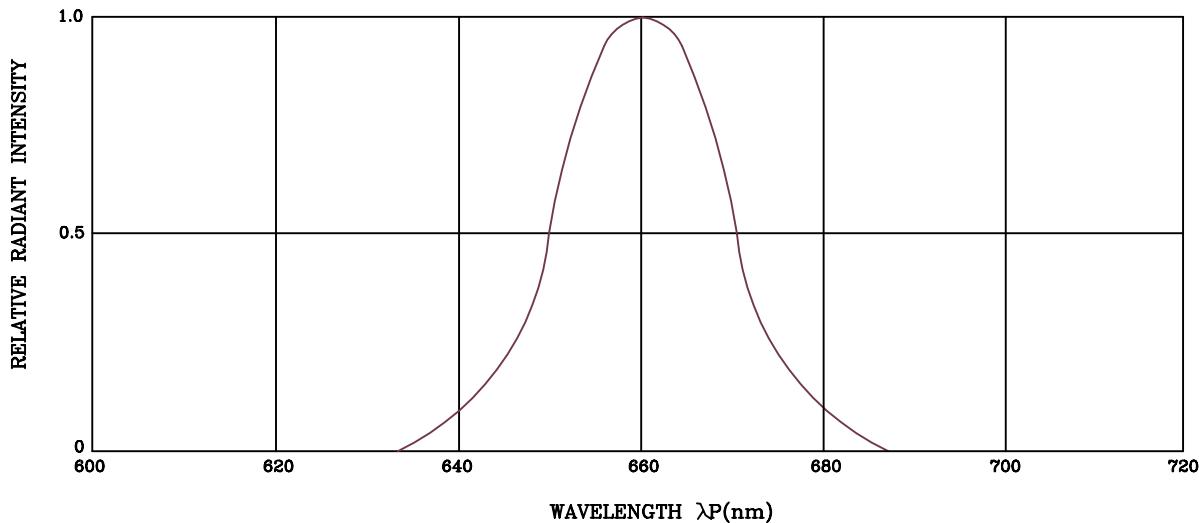


BRIGHT LED ELECTRONICS CORP.

TYPICAL CHARACTERISTICS

DEVICE NUMBER: BA-8D9UW

SPECTRAL DISTRIBUTION



RELIABILITY TEST

DEVICE NO.:BA-8D9UW

Classification	Test Item	Reference Standard	Test Conditions	Result
Endurance Test	Operation Life	MIL-STD-750:1026 MIL-STD-883:1005 JIS C 7021 :B-1	Connect with a power If=25mA Ta=Under room temperature Test time=1,000hrs(-24hrs,+72hrs)	0/10
	High Temperature High Humidity Storage	MIL-STD-202:103B JIS C 7021 :B-11	Ta=65°C±5°C RH=90%-95% Test time=240hrs±2hrs	0/10
	High Temperature High Humidity Reverse Bias		Ta=65°C±5°C RH=90%-95% Test time=500hrs(-24hrs,+48hrs)	0/10
	High Temperature Storage	MIL-STD-883:1008 JIS C 7021 :B-10	High Ta=85°C±5°C Test time=1,000hrs(-24hrs,+72hrs)	0/10
	Low Temperature Storage	JIS-C-7021 :B-12	Low Ta=-35°C±5°C Test time=1,000hrs(-24hrs,+72hrs)	0/10
Environmental Test	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 30min 5min 30min 5min Test Time=10cycle	0/10
	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	85°C±5°C ~ -35°C±5°C 10min 10min Test Time=10cycle	0/10
	Solder Resistance	MIL-STD-202:201A MIL-STD-750:2031 JIS C 7021 :A-1	T.sol=260±5°C Dwell Time=10±1sec.	0/10
	Solderability	MIL-STD-202:208D MIL-STD-750:2026 MIL-STD-883:2003 JIS C 7021 :A-2	T.sol=230±5°C Dwell Time=5±1sec.	0/10

JUDGMENT CRITERIA OF FAILURE FOR THE RELIABILITY

Measuring items	Symbol	Measuring conditions	Judgement criteria for failure
Forward voltage	VF	IF=20mA	Over Ux1.2
Reverse current	IR	VR=5V	Over Ux2
Luminous intensity	IV	IF=20mA	Below Sx0.5

Note: 1.U means the upper limit of specified 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.