BRIGHT LED ELECTRONICS CORP.

LED DISPLAY SPECIFICATION

●COMMODITY: 0.39"(10.00mm) SINGLE DIGIT LED DISPLAY

●DEVICE NUMBER: BS-C344RD VERSION: 1.0 /2002.03.12

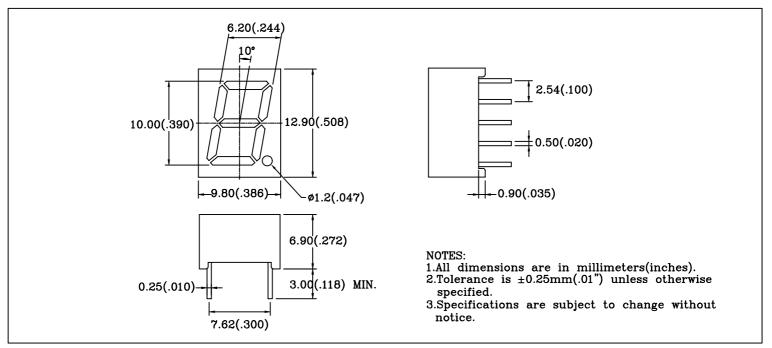
●ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta=25°C)

Chip		Absolute Maximum			Electro-optical					
Peak		Rating			Data (At 10mA)		Surface	Segment		
Emitted Color	Wave Length	Δλ	Pd	If	Peak	Vf(V) Iv Ty		Iv Typ.	Color	Color
	λ P(nm)	(nm)	(mW)	(mA)	If(mA)	Тур.	Max.	(mcd)		
Orange	635	45	80	30	150	2.0	2.5	3.0	Black	White

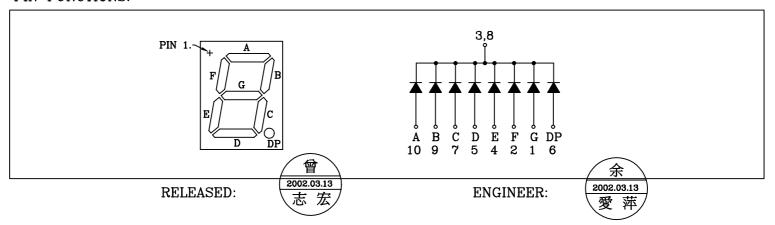
●ABSOLUTE MAXIMUN RATINGS (Ta=25°C)

Reverse Voltage			5V
Reverse Current (Vr=5V)	• • • • • • • • •		50μΑ
Operating Temperature Range			•
Storage Temperature Range	-40°C	\sim	85℃
Lead Soldering Temperature (1/16" From Body)	For 5	ς Sε	econds

PACKAGE DIMENSIONS:



PIN FUNCTIONS:

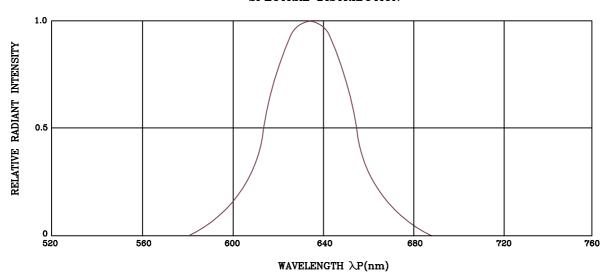


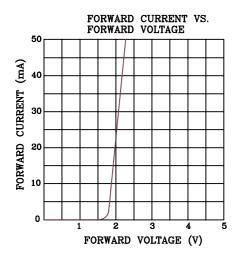
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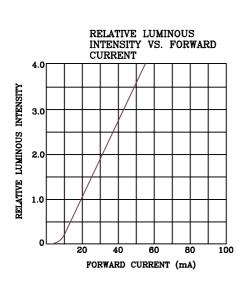
TYPICAL CHARACTERISTICS

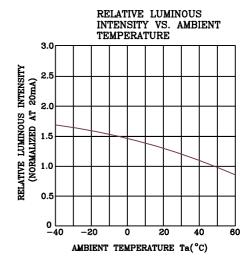
DEVICE NUMBER: BS-C344RD

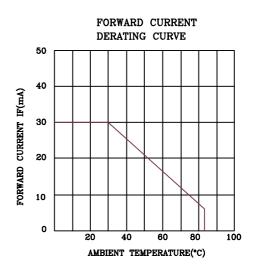
SPECTRAL DISTRIBUTION











RELIABILITY TEST

DEVICE NO.: BS-C344RD

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=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
Endurance Test	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 $\pm 5^{\circ}$ 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
	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
Environmental Test	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	$85^{\circ}\text{C}\pm5^{\circ}\text{C} \sim -35^{\circ}\text{C}\pm5^{\circ}\text{C}$ 10min $10minTest Time=10\text{cycle}$	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=10mA	Over Ux1.2	
Reverse current	IR	VR=5V	Over Ux2	
Luminous intensity	IV	IF=10mA	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.