BRIGHT LED ELECTRONICS CORP.

LED DOT MATRIX DISPLAY SPECIFICATION

●COMMODITY: 0.80"(20.30) DOT-MATRIX

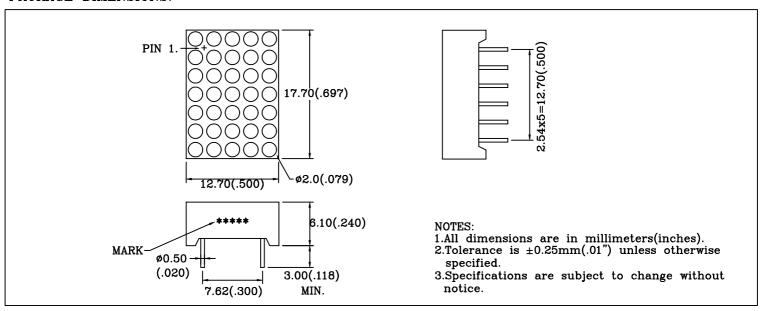
●DEVICE NUMBER: BM-07657ND VERSION: 1.0 / 2001.05.16

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

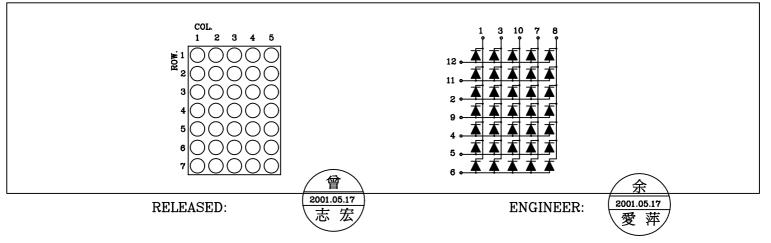
Chip		Absolute Maximun				Electro-optical				
Peak		Rating				Data (At 10mA)		Surface	Segment	
Emitted Color	Wave Length	Δλ	Pd	If	Peak	Vf(V)		Iv Typ.	Color	Color
	$\lambda P(nm)$	(nm)	(Mw)	(mA)	If(mA)	Тур.	Max.	(mcd)		
Super Red	660	20	60	30	150	1.7	2.5	12.0	Black	White

●ABSOLUTE MAXIMUN RATINGS (Ta=25°C)

PACKAGE DIMENSIONS:



PIN FUNCTIONS:

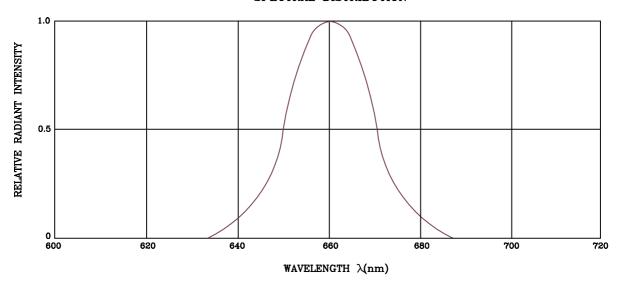


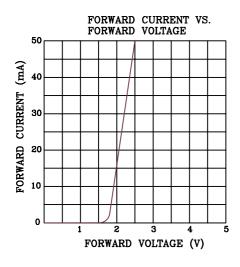
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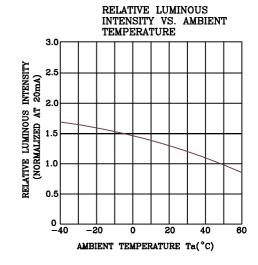
TYPICAL CHARACTERISTICS

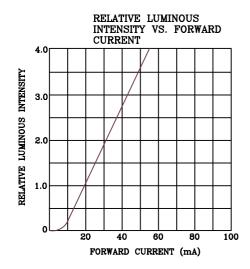
DEVICE NUMBER: BM-07657ND

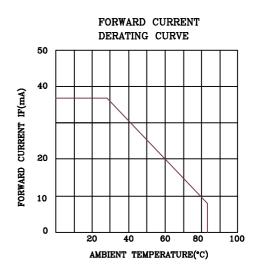
SPECTRAL DISTRIBUTION











RELIABILITY TEST

DEVICE NO.: BM-07657ND

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 $\pm 5^{\circ}$ 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
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=10mA	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.