

BRIGHT LED ELECTRONICS CORP.

LED DOT MATRIX DISPLAY SPECIFICATION

查询"BM-20657MD"供应商

● COMMODITY : 2.00" High ϕ 5.0

● DEVICE NUMBER : BM-20657MD

VERSION : 1.0 / 1999/01/07

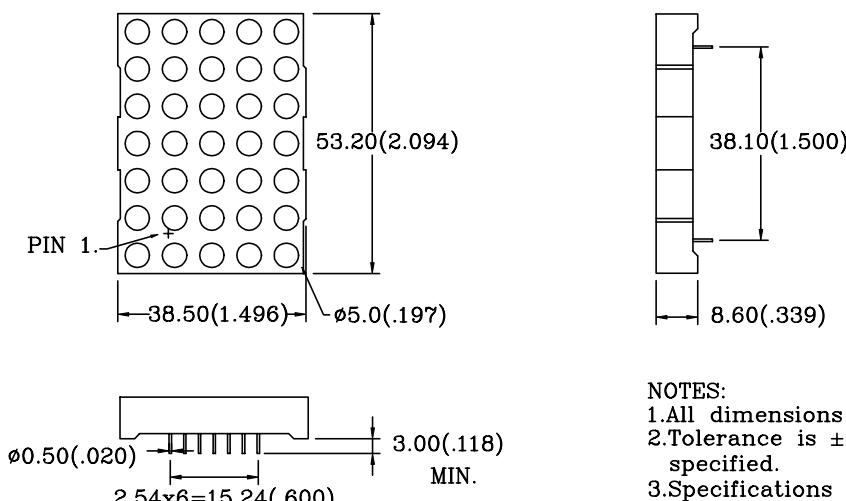
● ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta=25°C)

Chip		Absolute Maximum Rating				Electro-optical Data (At 10mA)		Surface Color	Segment Color	
Emitted Color	Peak Wave Length λ P(nm)	$\Delta \lambda$ (nm)	Pd (mW)	If (mA)	Peak If(mA)	Vf(V)	Iv Typ. (mcd)			
		Typ.	Max.	Typ.	Max.	Typ.	Max.			
Super Red	660	20	60	30	150	1.7	2.5	15.0	Black	White

● ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Reverse Voltage 5V
 Reverse Current (-Vr=5V) 50μA
 Operating Temperature Range -40°C ~ 85°C
 Storage Temperature Range -40°C ~ 100°C
 Lead Soldering Temperature (1/16" From Body)..... 260°C For 5 Seconds

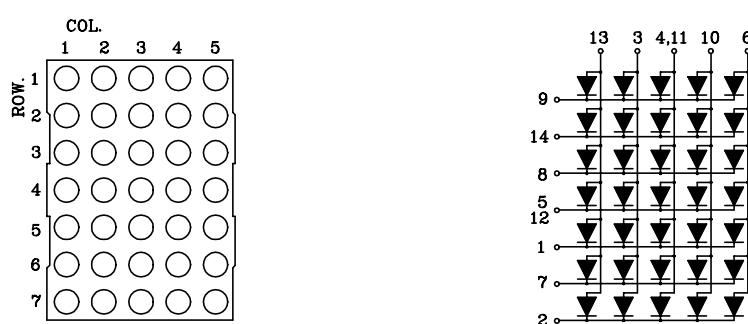
PACKAGE DIMENSIONS:



NOTES:

1. All dimensions are in millimeters(inches).
2. Tolerance is $\pm 0.25\text{mm}(0.01")$ unless otherwise specified.
3. Specifications are subject to change without notice.

PIN FUNCTIONS:



RELEASED:

曾
2000.07.20
志 宏

ENGINEER:

余
2000.07.20
芳 芳

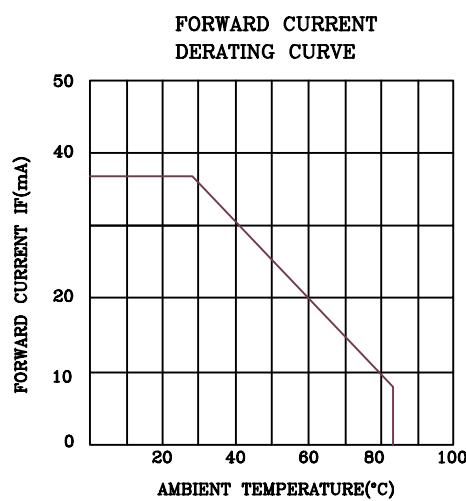
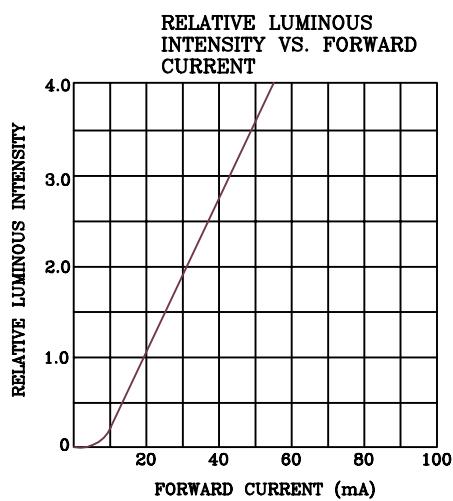
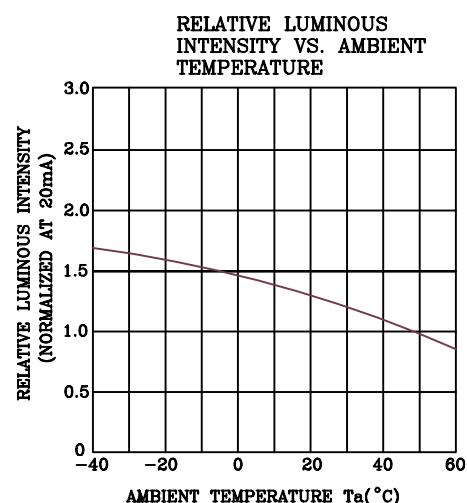
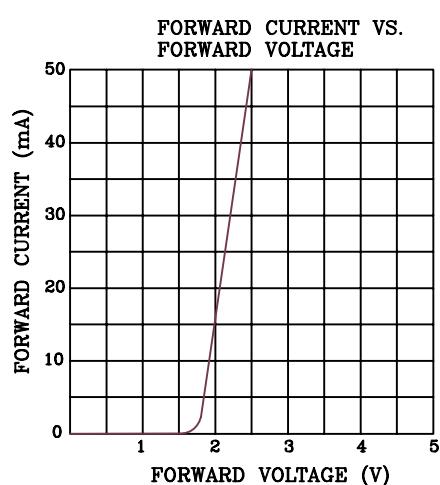
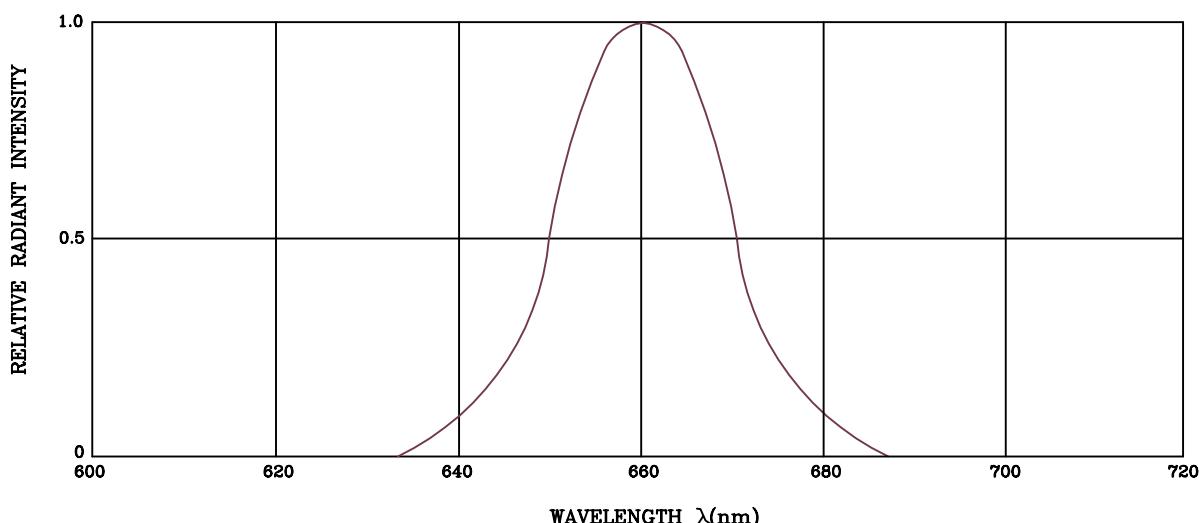
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TYPICAL CHARACTERISTICS

DEVICE NUMBER: BM-20657MD

SPECTRAL DISTRIBUTION



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RELIABILITY TEST

DEVICE NO.:BM-20657MD

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.