



## FEATURES

0.5 inch ( 12.7 mm) DIGIT HEIGHT  
EXCELLENT SEGMENT UNIFORMITY  
LOW POWER REQUIREMENT  
HIGH BRIGHTNESS AND HIGH CONTRAST  
WIDE VIEWING ANGLE  
SOLID STATE RELIABILITY  
BINNED FOR LUMINOUS INTENSITY

## DESCRIPTION

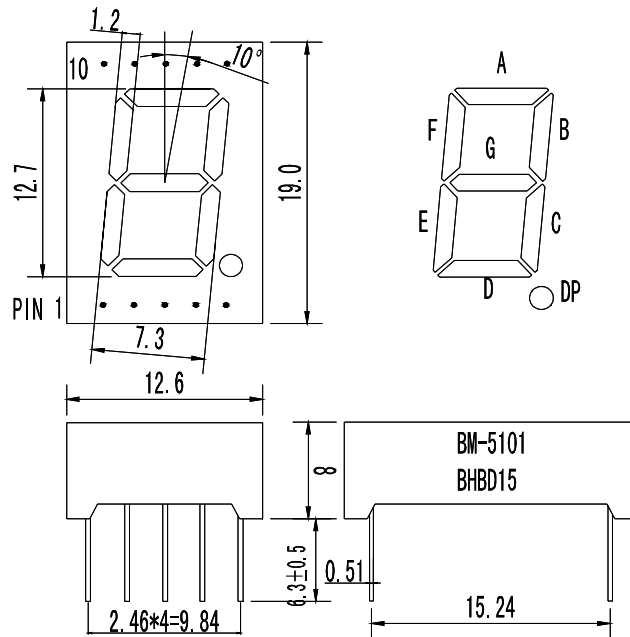
The BM-5101BHBD15 is a 0.50 inch ( 12.70 mm) digit height Single digit display.  
This device uses GaAIAs/GaAs RED LED chips.The display has light BLACK face and WHITE segments.

## DEVICE

PART NO.	DESCRIPTION
GaAIAs/GaAs RED	Common Anode
BM-5101BHBD15	Rt.Hand Decimal

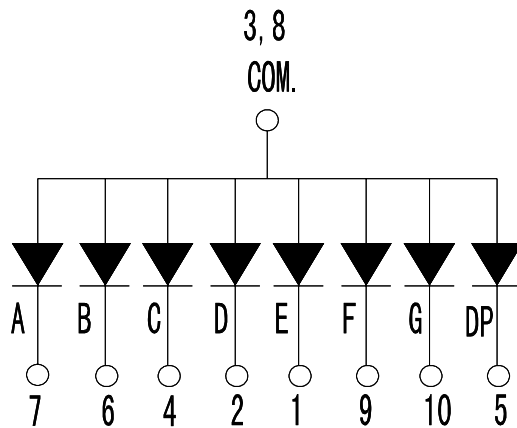


**PACHAGE DIMENSIONS**



NOTES : All dimensions are in millimeters.Tolerances are±0.25mm(0.01") unless otherwise noted.

**INTERNAL CIRCUIT DIAGRAM**





**ABSOLUTE MAXIMUM RATING AT Ta=25**

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	304	mW
Peak Forward Current Per Segment (Frequency 1Khz,15% duty cycle)	100	mA
Continuous Forward Current Per Segment	20	mA
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-40 ~80	
Storage Temperature Range	-40 ~100	
Soldering Conditions:1/16 inch below seating plane for 3seconds at 260		

**ELECTRICAL/OPTICAL CHARACTERISTICS AT Ta=25**

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITION
Average Luminous Intensity Per Segment	Iv	9	11	13	mcd	IF=20mA
Peak Emission Wavelength	p	/	650	/	nm	IF=20mA
Spectral Line Half-Width		/	20	/	nm	IF=20mA
Dominant Wavelength	d	638	642	645	nm	IF=20mA
Forward Voltage Per Segment	VF	1.7	1.9	2.4	V	IF=20mA
Reverse Current Per Segment	IR	/	/	20	µA	VR=5V

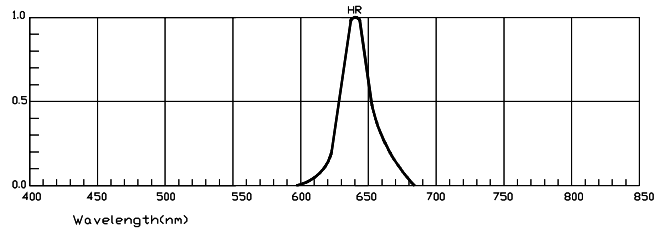
Note:Luminous Intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage) eye-response curve.



## Property of Fujisunwah Only

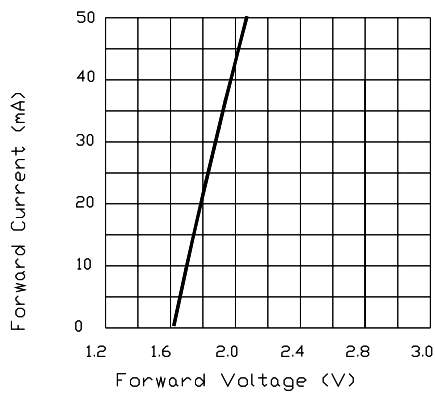
### Typical Electro-Optical Characteristic Curves:

SPECTRAL DISTRIBUTION

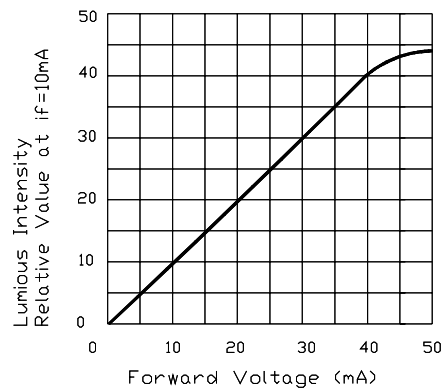


HI-RED(GaAlAs/GaAs)

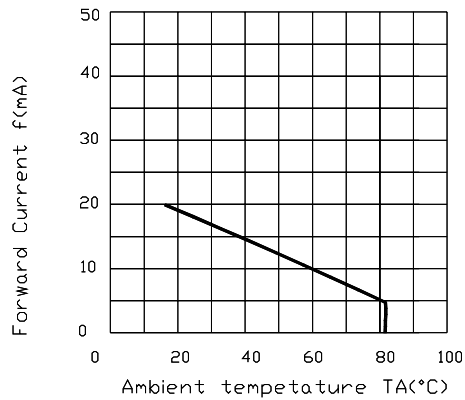
FORWARD CURRENT VS FORWARD VOLTAGE



LUMINOUS INTENSITY VS FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY VS AMBIENT TEMPERATURE

