



FEATURES

- 0.3 inch (7.8 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

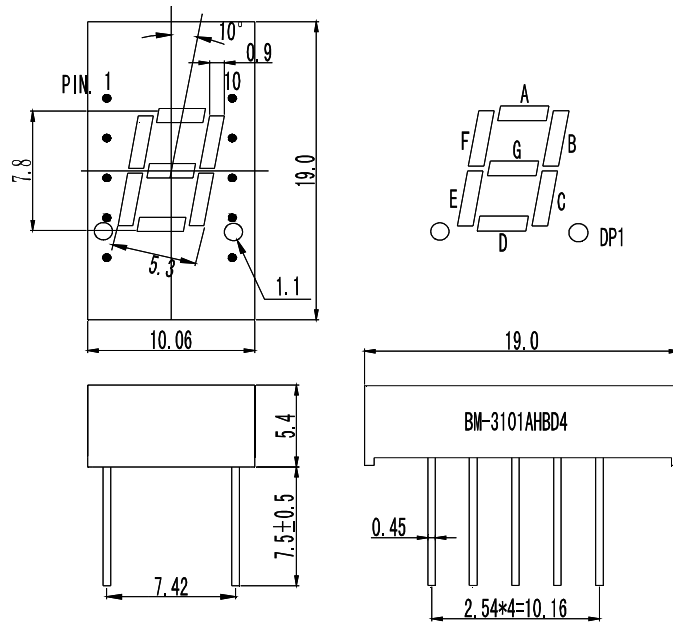
The BM-3101AHBD4 is a 0.30 inch (7.8 mm) digit height Single digit display.
This device uses GaAIAs/GaAs RED LED chips.The display has light BLACK face and WHITE segments.

DEVICE

PART NO.	DESCRIPTION
GaAIAs/GaAs RED BM-3101AHBD4	Common Cathode Rt.Hand Decimal

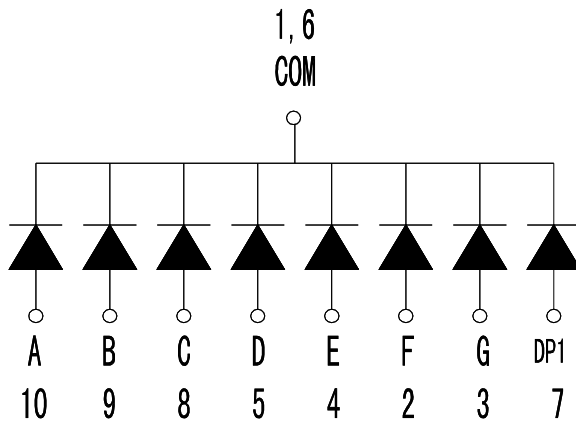


PACHAGE DIMENSIONS



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

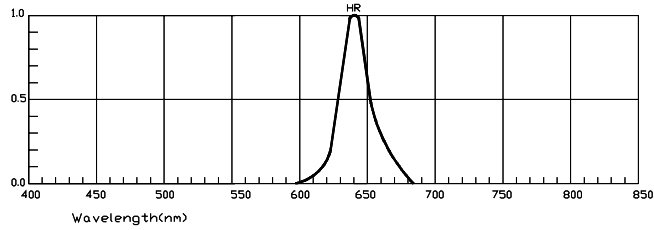
Note:Luminous Intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage) eye-response curve.



Property of Fujisunwah Only

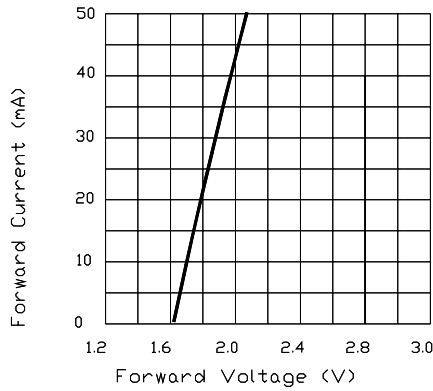
Typical Electro-Optical Characteristic Curves:

SPECTRAL DISTRIBUTION

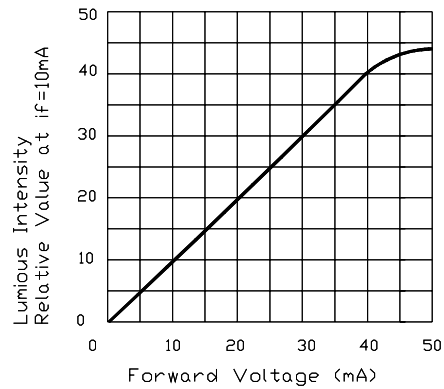


HI-RED(GaAlAs/GaAs)

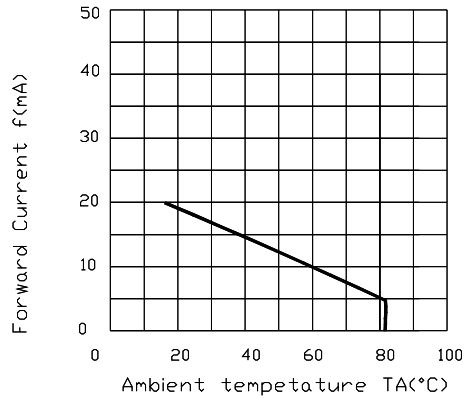
FORWARD CURRENT VS FORWARD VOLTAGE



LUMINOUS INTENSITY VS FORWARD CURRENT



FORWARD CURRENT DERATING CURVE



LUMINOUS INTENSITY VS AMBIENT TEMPERATURE

