

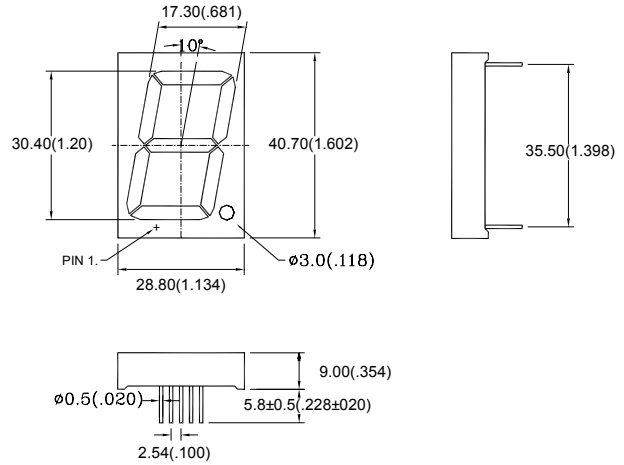
### ● Features :

1. 1.20 inch (30.4mm) Digit Height.
2. Continuous uniform segments.
3. Low power requirement.
4. Excellent characters appearance.
5. Solid state reliability.
6. Categorized for luminous intensity.
7. Direct drive common anode.

### ● Description :

1. The BS-AB2EGRD is a 30.4mm (1.20") high single digit seven segment display.
2. This product use hi-eff red chips and green chips ,the hi-eff red chips are made from GaAsP on GaP substrate, the green chips are made from GaP on GaP substrate.,
3. This product have a black face and white segments.
4. This product doesn't contain restriction substance, comply ROHS standard.

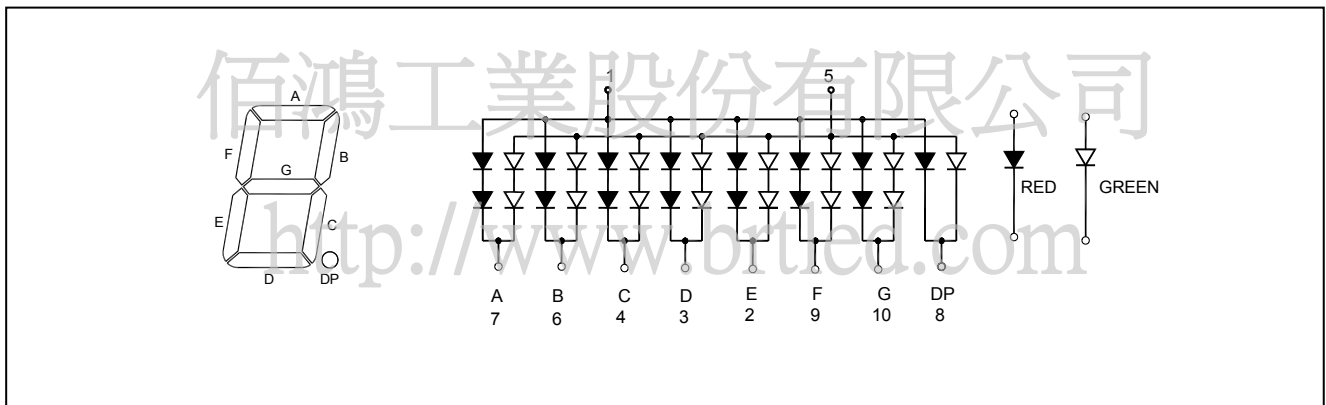
### ● Package Dimensions :



#### Notes:

1. All dimensions are in millimeters(inches).
2. Tolerance is  $\pm 0.25\text{mm}(.01\text{'})$  unless otherwise specified.
3. Specifications are subject to change without notice.

### ● Internal Circuit Diagram :



● **Absolute Maximum Ratings(Ta=25°C)**

Parameter	Symbol	Hi-Eff Red Rating	Green Rating	Unit
Power Dissipation Per Segment	Pd	160	160	mW
Forward Current Per Segment	I <sub>F</sub>	30	30	mA
Peak Forward Current Per Segment	I <sub>FP</sub> (Duty 1/10, 1KHZ)	150	150	mA
Reverse Voltage Per Segment	V <sub>R</sub>	5		V
Operating Temperature	Topr	-40°C~80°C		-
Storage Temperature	Tstg	-40°C~85°C		-
Soldering Temperature (1/16" From Body)	Tsol	260°C For 5 Seconds		-

● **Electrical And Optical Characteristics(Ta=25°C)**

Hi-Eff Red

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage Per Segment	V <sub>f</sub>	I <sub>F</sub> =10mA	-	4.0	5.0	V
Luminous Intensity Per Segment	I <sub>v</sub>	I <sub>F</sub> =10mA	-	5.5	-	mcd
Reverse Current Per Segment	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	100	μA
Peak Wave Length	λ <sub>p</sub>	I <sub>F</sub> =10mA	-	640	-	nm
Dominant Wave Length	λ <sub>d</sub>	I <sub>F</sub> =10mA	626	-	636	nm
Spectral Line Half-width	Δλ	I <sub>F</sub> =10mA	-	40	-	nm

Green

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage Per Segment	V <sub>f</sub>	I <sub>F</sub> =10mA	-	4.4	5.0	V
Luminous Intensity Per Segment	I <sub>v</sub>	I <sub>F</sub> =10mA	-	5.5	-	mcd
Reverse Current Per Segment	I <sub>R</sub>	V <sub>R</sub> =5V	-	-	100	μA
Peak Wave Length	λ <sub>p</sub>	I <sub>F</sub> =10mA	-	568	-	nm
Dominant Wave Length	λ <sub>d</sub>	I <sub>F</sub> =10mA	567	-	572	nm
Spectral Line Half-width	Δλ	I <sub>F</sub> =10mA	-	30	-	nm

## ● Typical Electro-Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

