

Specification for Approval

DEVICE NUMBER: BS-A53GERI

CUSTOMER:

SAMPLES ATTACHED AREA

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2019/11/18	1.0	1.0	1.0	1.0							Initial Released
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FOR CUSTOMER'S APPROVAL STAMP OR SIGNATURE

APPROVED	PURCHASE	MANUFACTURE	QUALITY	ENGINEERING
4				

佰鴻工業股份有限公司 BRIGHT LED ELECTRONICS CORP. 新北市板橋區和平路 19 號 3 樓 3F., No.19, He Ping Road, Ban Qiao Dist., New Taipei City, Taiwan

Tel: +886-2-29591090

Fax: +886-2-29547006/29558809

www.brtled.com

ISSUED	APPROVED	PREPARED
張孝嚴	郭初榮	王芳利



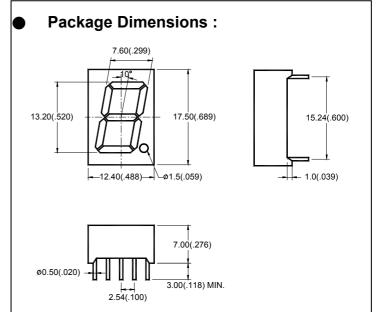
BS-A53GERI

Features :

- 1. 0.52 inch (13.20mm) 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 :

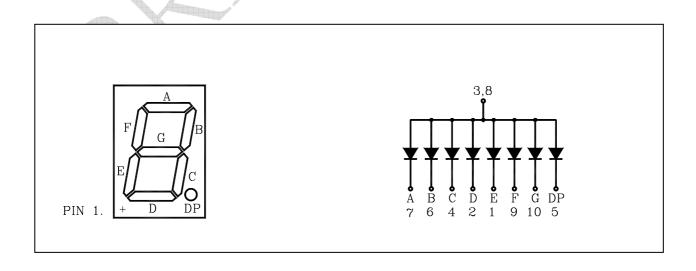
- 1. The BS-A53GERI is a 13.20mm(0.52") high single digit seven segments display.
- 2. This product use super yellow green chips,
- 3. This product have a gray face and white segments.
- This product doesn't contain restriction substance, comply RoHS standard.



Notes:

- 1. All dimensions are in millimeters(inches).
- 2. Tolerance is ±0.25mm(.01")unless otherwise specified.
- 3. Specifications are subject to change without notice.

Internal Circuit Diagram :





BS-A53GERI

Absolute Maximum Ratings(Ta=25[°]C)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Segment	Pd	80	mW
Forward Current Per Segment	I _F	30	mA
Peak Forward Current Per Segment	I _{FP} (Duty 1/10, 1KHZ)	150	mA
Reverse Voltage Per Segment	V _R	5	V
Operating Temperature	Topr	-40℃~85℃	_
Storage Temperature	Tstg	-40℃~85℃	-

■ Electrical And Optical Characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage Per Segment	Vf	I _F =10mA	-	2.0	2.5	٧
Luminous Intensity Per Segment	lv	I _F =10mA	-	12.0	-	mcd
Reverse Current Per Segment	I _R	V _R =5V	-	-	100	μΑ
Peak Wave Length	λр	I _F =20mA	-	570	-	nm
Dominant Wave Length	λd	I _F =20mA	567	-	573	nm
Spectral Line Half-width	Δλ	I _F =20mA	-	30	-	nm

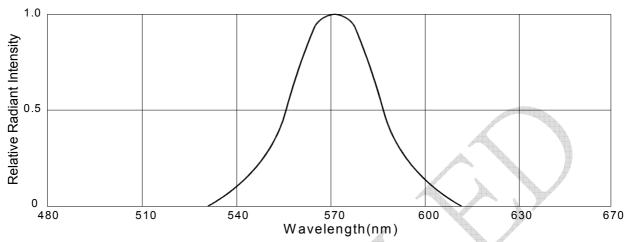


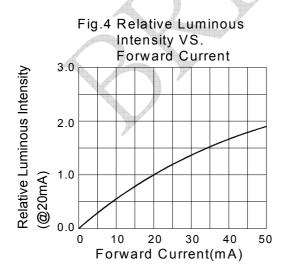
BS-A53GERI

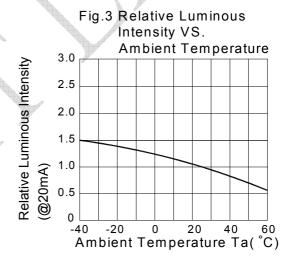
Typical Electro-Optical Characteristics Curves

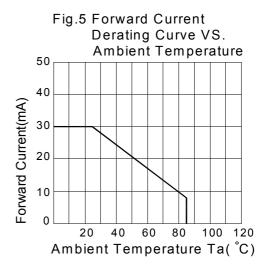
(25°C Ambient Temperature Unless Otherwise Noted)

Fig.1 Relative Radiant Intensity VS. Wavelength



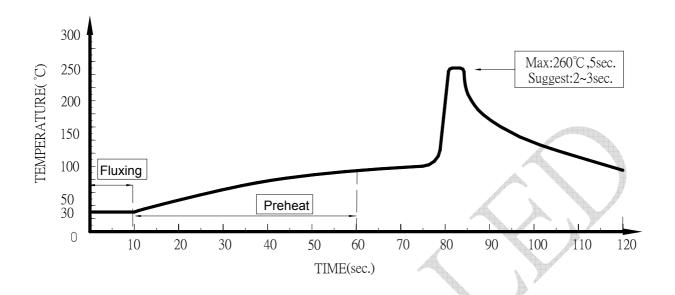






BS-A53GERI

Dip Soldering



- 1. Please avoid any external stress applied to the lead-frames and epoxy while the LEDs are at high temperature, especially during soldering
- 2. DIP soldering and hand soldering should not be done more than one time.
- 3. After soldering, avoid the epoxy lens from mechanical shock or vibration until the LEDs are back to room temerature.
- 4. Avoid rapid cooling during temperature ramp-down process
- Although the soldering condition is recommended above,soldering at the lowest possible temperature is feasible for the LEDs

IRON Soldering

350℃ Within 3 sec.,One time only.