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# DATA SHEET

PART NO. : B1020VG3

REV : A / 0

CUSTOMER'S APPROVAL : \_\_\_\_\_

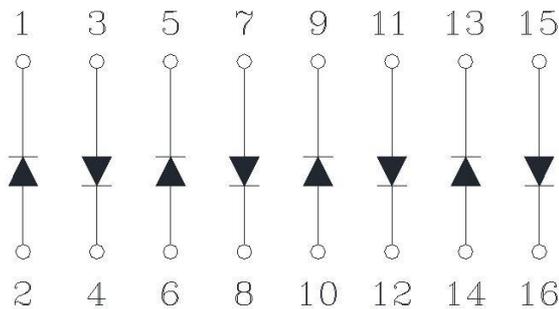
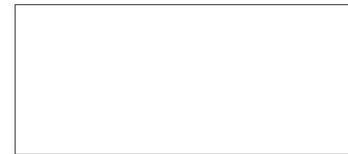
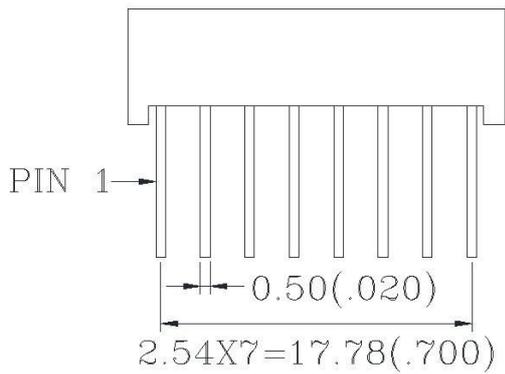
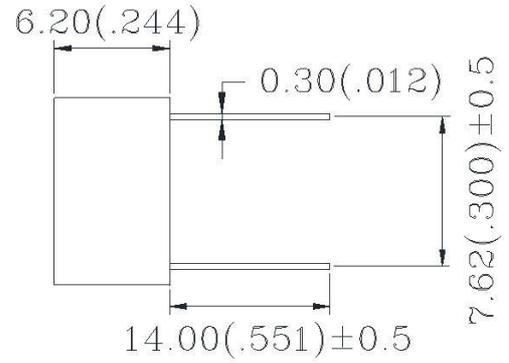
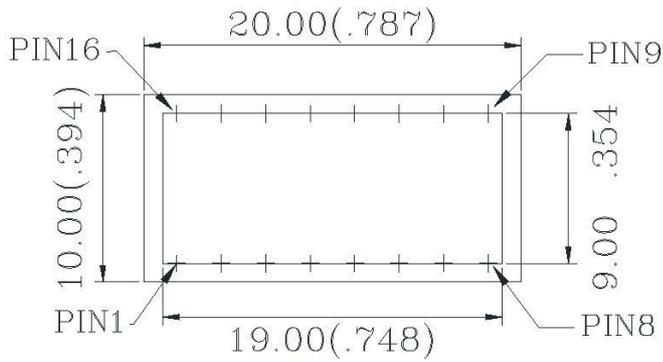
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DRAWING NO. : DS-17-19-0175G

DATE : 2019-10-15

Page : 1

PACKAGE DIMENSIONS



NOTES : 1. All dimensions are in millimeters. (inches)  
 2. Tolerance is  $\pm 0.25(0.010)$  unless otherwise specified.



# 10 BAR GRAPH DISPLAY MULTI COLOR

## B1020VG3

REV:A / 0

### FEATURES

20mm x 19mm SQUARE TRIANGLE LIGHT BAR

I.C. COMPATIBLE

CAN BE USED WITH PANEL AND LEGEND MOUNT

SUITABLE FOR MULTIPLEX OPERATION

EASY MOUNTING ON P.C.B

Pb FREE PRODUCTS

WHITE SEGMENTS

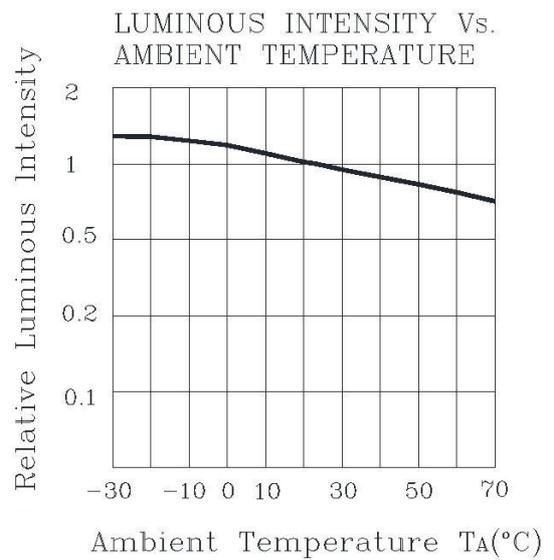
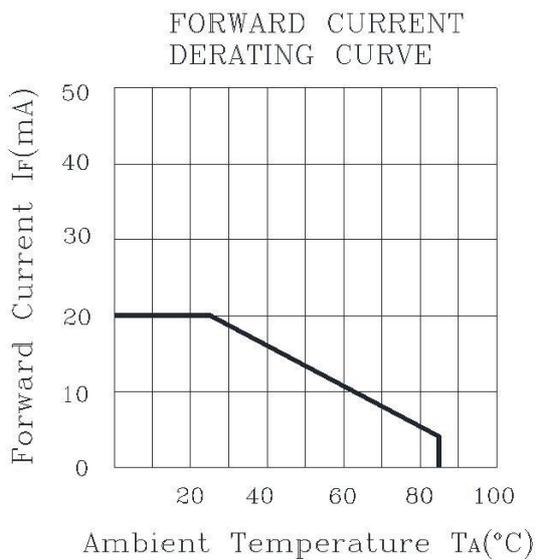
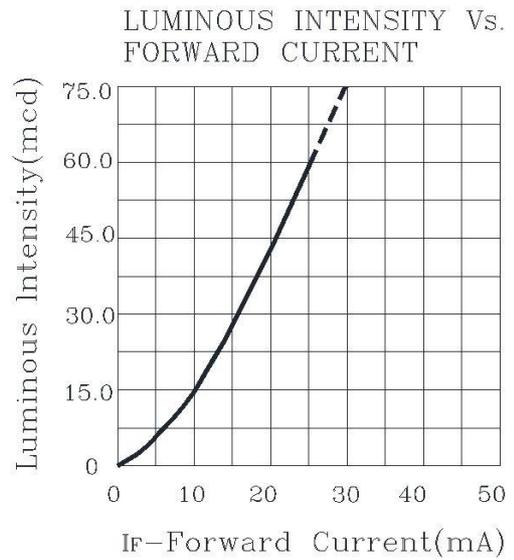
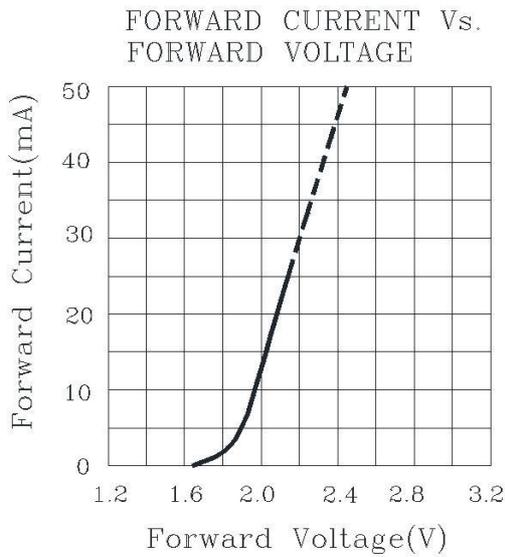
Raw Material : AlGaInP

ABSOLUTE MAXIMUM RATING : ( Ta = 25°C )

SYMBOL	PARAMETER	YELLOW GREEN	UNIT
PD	Power Dissipation Per Bar	75	mW
VR	Reverse Voltage Per Bar	5	V
IAF	Continuous Forward Current Per Bar	20	mA
—	Derating Linear From 25°C Per Bar	0.33	mA/°C
Topr	Operating Temperature Range	-35°C to 85°C	
Tstg	Storage Temperature Range	-35°C to 85°C	

ELECTRO-OPTICAL CHARACTERISTICS : ( Ta = 25°C )

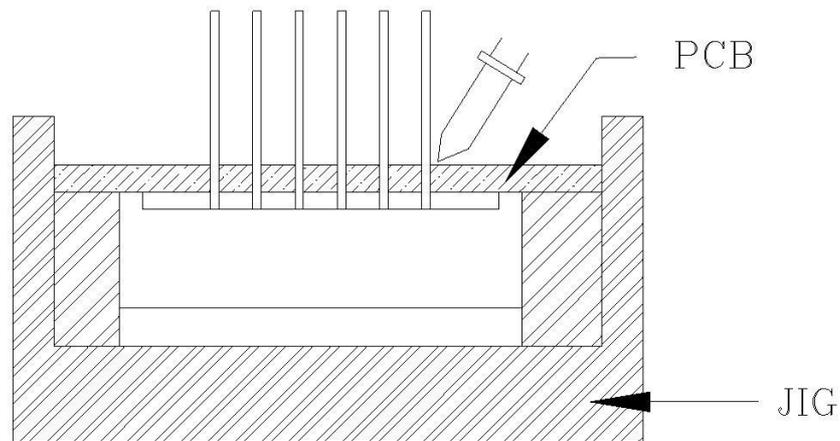
SYMBOL	PARAMETER	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
VF	Forward Voltage , Per Bar	IF = 20mA		2.1	2.6	V
IR	Reverse Current , Per Bar	VR = 5V			100	µA
λP	Peak Emission Wavelength	IF = 20mA		568		nm
λD	Dominant Wavelength	IF = 20mA		570		nm
Δλ	Spectral Line Half—Width	IF = 20mA		30		nm
IV	Luminous Intensity Per Bar	IF = 10mA	4.8	12.0		mcd



**SOLDERING**

METHOD	SOLDERING CONDITIONS	REMARK
DIP SOLDERING	Bath temperature: 260 max Immersion time: within 5 sec	Solder no closer than 2mm from the base of the package Using soldering flux," RESIN FLUX" is recommended.
SOLDERING IRON	Soldering iron: 30W or smaller Temperature at tip of iron: 360 or lower Soldering time: within 3 sec.	During soldering, take care not to press the tip of iron against the PIN. (To prevent heat from being transferred directly to the PIN.)

1) When soldering the PIN of Display in a jig that the package is fixed with a panel (See fig.1), be careful not to stress the PIN with iron tip. When soldering Display in a condition that the package is fixed with a panel, be careful not to cling and stress the surface of Display on the panel to avoid damaging the Display.



**Fig.1**

Regarding solution in the tinning oven for product-tinning, compound sub-solution made of tin & copper and silver is proposed with the temperature of Celsius 260. The proportion of the alloyed solution is tin 95.5: copper 3.5: silver 0.5 by percentage. The time of tinning is constantly 3 seconds.