EVERCOLOR

承　　認　　書

SPECIFICATION FOR APPROVAL

客　　戶
Customer

機　　種
Machinery

品　　名
Description　　E10562-JFOW

編　　號
No.

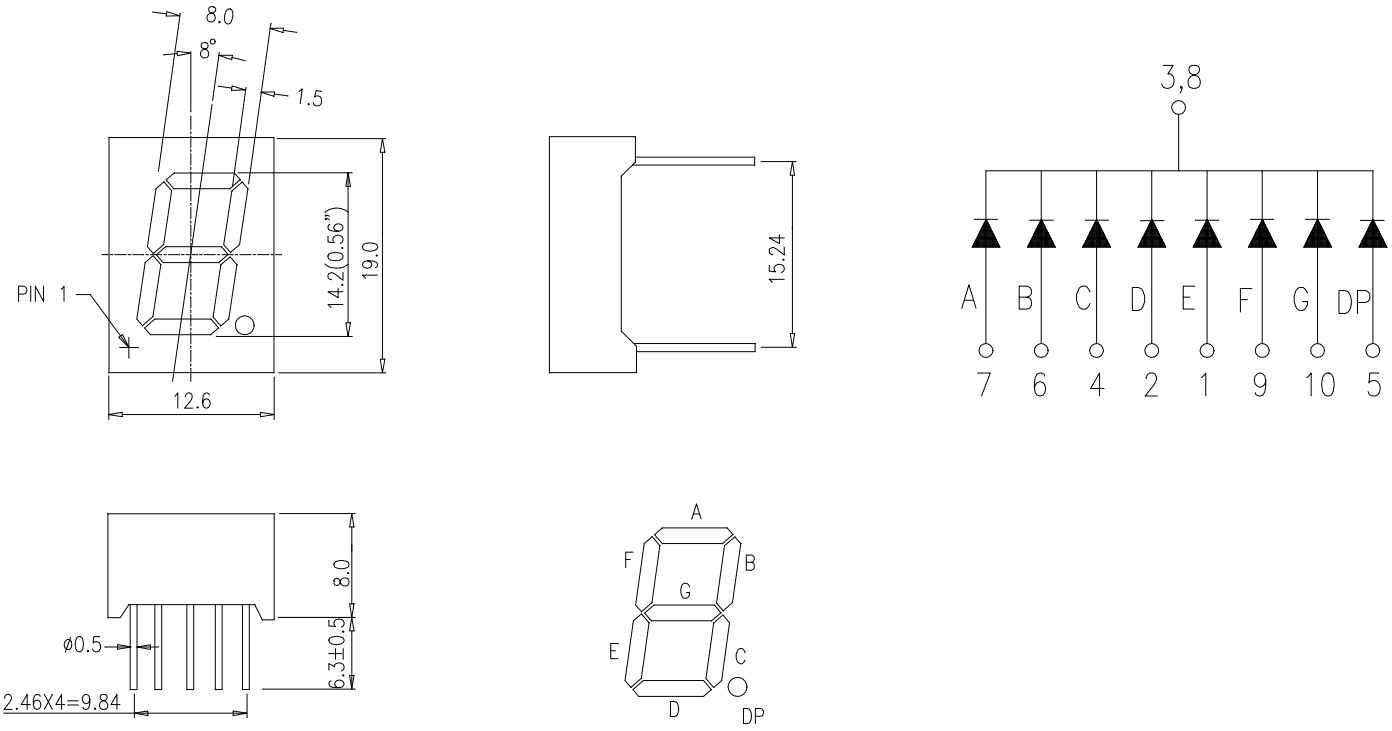
承　　認　　書　　簽　　章 APPROVED SIGNATURES		

電話：（0755）26751736　26751903　　傳真：（0755）26751963

0.56" Single Digit Display

MODEL NO : E10562-JFOW

Package Dimensions:



PART NO	CHIP		Face Color		C.C. or C.A.
	Material	Emitted Color	Segments	Surface	
E10562-JFOW	AlGaInP	Supr Red	White	Black	Common Cathode

Notes:

- All dimensions are in millimeters(inches).
- Tolerance is ±0.25(.010")mm unless otherwise noted.
- Above specification may be changed without notice.
- Supplier will reserve authority on material change for above spcification.

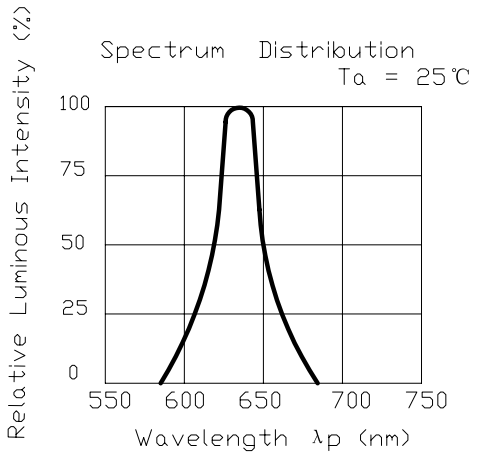
Absolute maximum Ratings (Ta = 25℃)

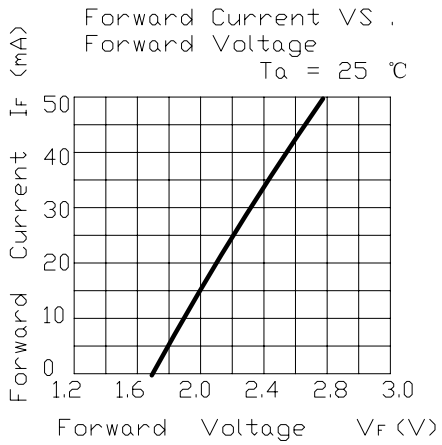
Parameter	Symbol	Max	Unit
Forward current	I_F	20	mA
Reverse voltage	V_R	5	V
Power dissipation	Pd	57	mW
Peak forward current	IFP	80	mA
Operating temperature	Topr	-40℃ ~ 85℃	
Storage temperature	Tstg	-40℃ ~ 90℃	
Soldering temperature	Tsol	260℃ for 5 Seconds	

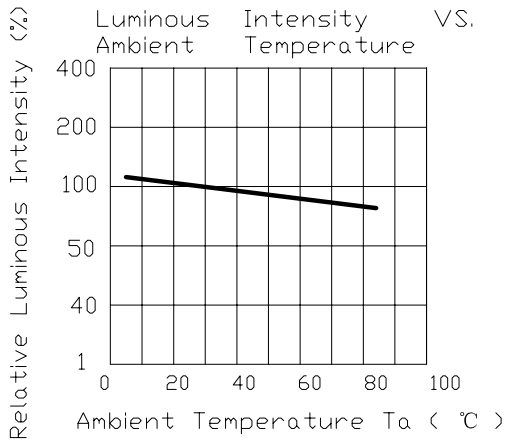
Electro / Optical Characteristics (Ta = 25℃)

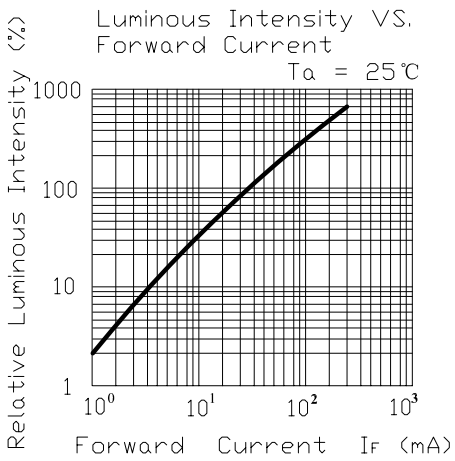
Parameter	Symbol	Condition	Min	Tpy	Max	Unit
Luminous Intensity	Iv	IF = 20mA	16	20	23	Mcd
Forward Voltage	V_F		1.9	2.0	2.2	V
Reverse Current	I_R	V_R = 5V	----	----	10	μA
View Angle	2θ 1/2	IF = 20mA	----	----	----	deg
Spectral Bandwidth	Δλ		----	20	----	nm
Dominant Wavelength	λd		----	635	----	nm

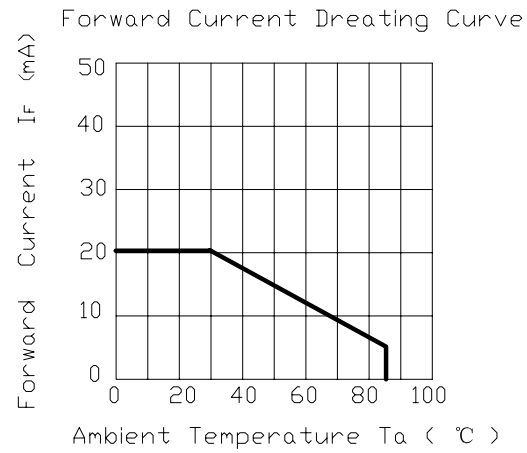
Typical Electro-Optical Dharacteristics Curves











Reliability Test Items And Conditions

The reliability of products shall be satisfied with items listed below.
Confidence level 90%
LTPD 10%

NO.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Re
1	Soldering Heat	Temp:260℃±5℃	5±1 SEC	76 PCS	0/1
2	Temperature Cycle	H:+85℃ 30 min ∫ 5 min L:-35℃ 30 min	50 Cycles	76 PCS	0/1
3	Thermal Shock	H:+85℃ 30 min ∫ 5 min L:-10℃ 30 min	50 Cycles	76 PCS	0/1
4	High Temperature Storage	Temp. : 80℃	1000 Hrs	76 PCS	0/1
5	Low Temperature Storage	Temp. : -25℃	1000 Hrs	76 PCS	0/1
6	DC Operating Life	IF = 20 mA	1000 Hrs	76 PCS	0/1
7	High Temperature / High Humidity	+85℃/ 85%RH	1000 Hrs	76 PCS	0/1

Explanation :

1.Storage

The display should be store in the dry and ventilation place，recommend Storage Temperature is 25℃±10℃，Humidity 50%RH±10%RH．Suggest use all in one time once open carton，or must store with seal．

2.Soldering condition

2.1 Manual soldering：iron(Maximum 30W)，iron bit temperature can over 350 degree；soldering time should not be more than 3 seconds ， and soldering position should be at least1.6mm away from the LED epoxy．

2.2 Wave soldering：soldering temperature should not be over 260 degree；soldering time should not be more than 3 seconds； soldering position should be at least 1.6mm away from the LED epoxy．

3.Cleanout

Utmost care must be taken when using chemical to clean LED． Some chemical can damage the surface of epoxy and will cause color fading， such as trichloroethylene, acetone ,etc.ethanol can be used to wipe．

4.ESD protection

Excessive ESD and current could damage the LED． Please ESD protection equipment such as anti-static gloves anti-static wrist bands when operate LED product．

5.Dehumidification

If the LED display have been stored for over 6 months， it request dehumidification before use， the way to dehumidification baking at 80℃ for 12 hour．