PRODUCT DRAWING

DRAWING OF TB1012S

CUSTOMER NO.:	
FILENAME:	REVISION: J
ORIGINAL DATE: 17 Mar 2005	TOTAL PAGES: 3
☐ INITIATE ☑ REVISE	EFFECTIVE DATE:

REVISIONS

REV	DESCRIPTION	DATE
A	Change cuicuit diagram.	23 Mar 2005
B	Change cuicuit diagram(reduce Led No.).	24 Mar 2005
C	Change cuicuit diagram(increase Led No.).	12 Apr 2005
D	Change to double side with LED.	12 Apr 2005
E	Add a red mark beside the blue pin on backside.	15 Apr 2005
F	Swap anode and cathode	16 MAY 2005
G	Change circuit diagram.	20 AUG 2005
H	Change circuit diagram.	25 AUG 2005
I	Swap A and K2 pins	12 Sep 2005
J	Amend a error, see dimension 40.9.	07 Oct 2005

ORIGINATOR	DESIGN MGR.

Please sign and fax back this page to confirm this drawing.
Please indicate if you need samples.

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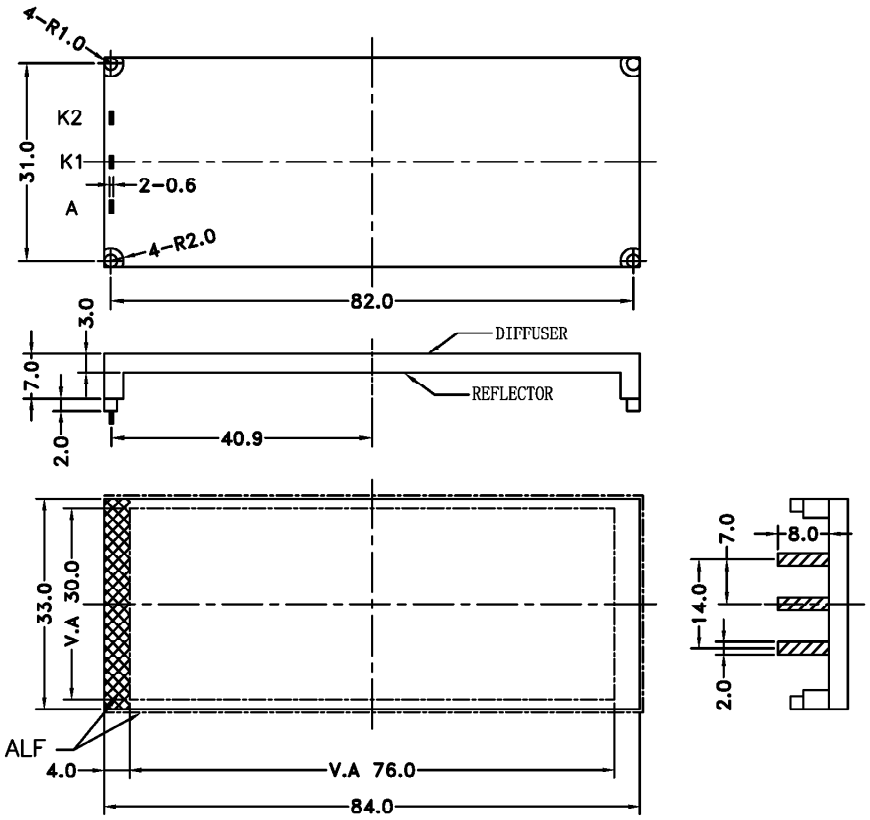
Authorized Signatures

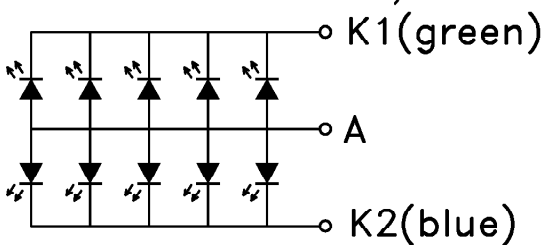
1. MECHANICAL OUTLINE

COLOR : GREEN + blue

Unspecified Tolerances is ± 0.3



2. CIRCUIT DIAGRAM (LED 2x5=10 dies)



3. STORAGE & SOLDERING CONDITIONS:

- Store with care. Storing the units in bad condition will cause the reflector sheet and decrease it's adhesive power. Storage The products under the condition: temperature (25°c ±10°C) and humidity (65°CRH±20°CRH) our recommendation.
- The Soldering Temperature is 260±5°C and Soldering Time should be less than 3 sec, and soldering iron power should be less than 30W.
- The soldering point should be farther than 1.6mm (1/10") from body .

4. ABSOLUTE MAXIMUM RATINGS

Unless specified,The Ambient temperature Ta=25°C

Item	Symbel	Conditions	Rating	Unit
* Absolute maximum forward current	Ifm		2X125	mA
* Peak forward current	Ifp	1 msec Plus 10% Duty Cycle	2X300	mA
Reverse Voltage	Vr		5	V
* Power dissipation	Pd		2X250	mW
Operating Temperature Range	Topr		−30~+70°C	°C
Storage Temperature Range	Tstg		−40~+80°C	°C

*

For operation above 25°C,The Ifm Ifp & Pd must be derated,the Curent derating is -1.44-1.08 mA/°c for DC drive and -1.8X2 mA/°c for Pulse drive,the Power dissipation is -3.75X2 mW/°c. The product working current must not more than the 60 % of the Ifm ir Ifp according to the working temperature.

5. ELECTRICAL−OPTICAL CHARACTERISTICS

Unless specified,The Ambient temperature Ta=25°C

Item	Symbol	min.	typ.	max.	Unit	Condition
Forward Voltage	Vf	3.0	3.3	3.6	V	If= 80X2 mA
Reverse Current	Ir			100	μA	Vr= 5 V
Peak wave length	λρ		525(GREEN) 470(BLUE)		nm	If= 80X2 mA
Spectral Line Half width	△λ		30		nm	If= 80X2 mA
* Luminance	Lv				cd/m²	If= 80X2 mA

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The luminance is the average value of 6 points, and The Lvmax./Lvmin. is less than 1.5 Typical (max 1.7). The measurement instrument is BM−7 luminance Colorimeter.The caperture is ø 5 mm.