PRODUCT DRAWING

DRAWING OF TB1027S

CUSTOMER NO.:		
FILENAME:	REVISION:	
ORIGINAL DATE: 24 JAN 2006	TOTAL PAGES: 3	

☑ INITIATE
☐ REVISE

EFFECTIVE DATE:

REVISIONS

REV	DESCRIPTION	DATE

ORIGINATOR	DESIGN MGR.

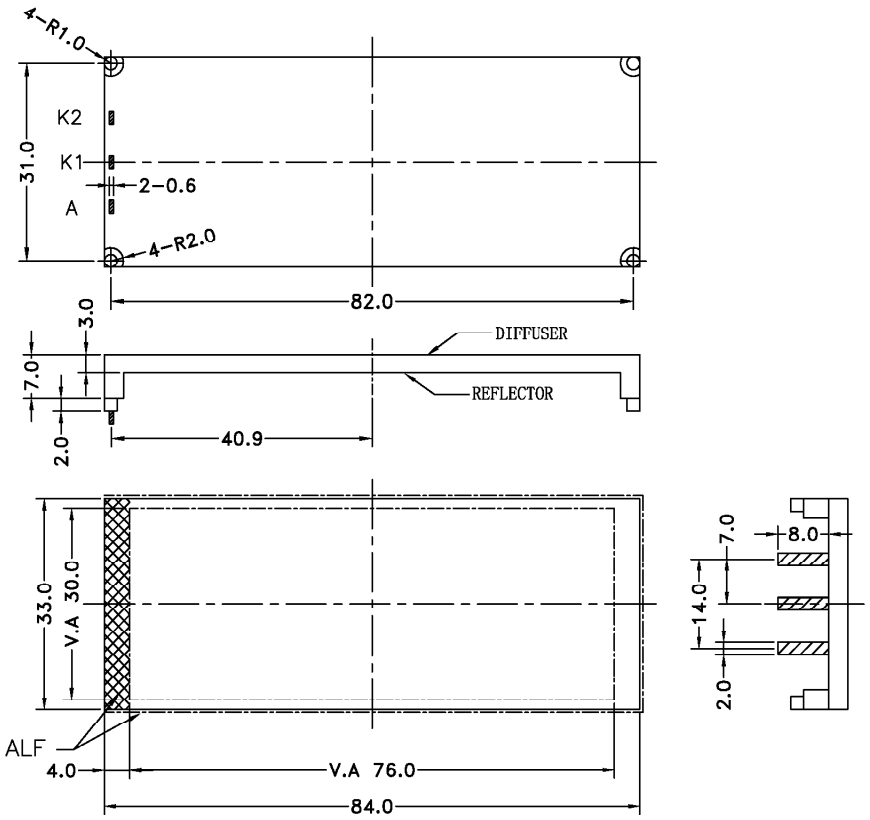
Please sign and fax back this page to confirm this drawing.
Please indicate if you need samples.

Authorized Signatures

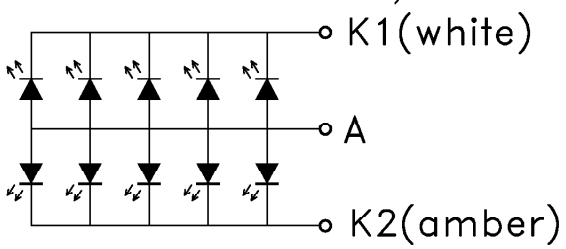
1. MECHANICAL OUTLINE

COLOR : White+Amber

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 (W)	Rating (A)	Unit
* Absolute maximum forward current	Ifm		100	125	mA
* Peak forward current	Ifp	1 msec Plus 10% Duty Cycle	200	300	mA
Reverse Voltage	Vr		5	5	V
* Power dissipation	Pd		350	250	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 −1.8X2 mA/°c for DC drive and −4.3X2 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	(White) min.	(White) typ.	(White) max.	(Amber) min.	(Amber) typ.	(Amber) max.	Unit	Condition
Forward Voltage	Vf	3.1	3.3	3.5	1.85	1.95	2.05	V	If= 80X2 mA
Reverse Current	Ir			100			100	μA	Vr= 5 V
Peak wave length	λρ				586	590	595	nm	If= 80X2 mA
Spectral Line Half width	△λ		30			35		nm	If= 80X2 mA
* Luminance	Lv							cd/m²	If= 80X2 mA

*

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 aperture is ø 5 mm.