

PRODUCT DRAWING	CUSTOMER NO.:	
	FILENAME:	REVISION: A
DRAWING OF TB1024S	ORIGINAL DATE: 23 DEC 2005	TOTAL PAGES: 3
<input type="checkbox"/> INITIATE <input checked="" type="checkbox"/> REVISE		EFFECTIVE DATE:
REVISIONS		
REV	DESCRIPTION	DATE
A	Change a error of dimensions.	15 FEB 2006
ORIGINATOR		DESIGN MGR.

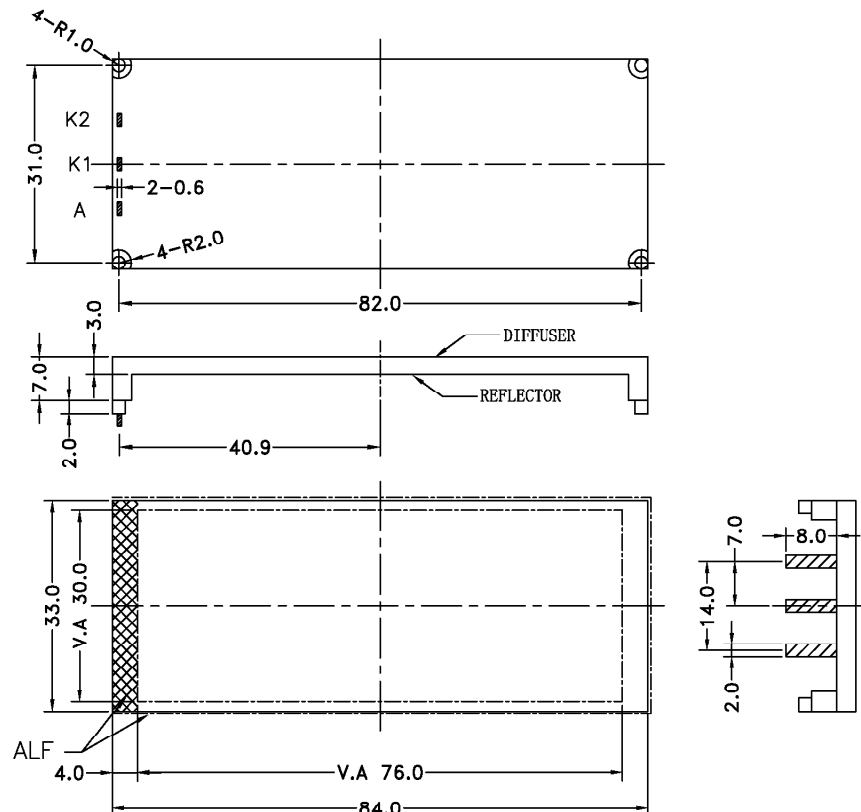


Please sign and fax back this page to confirm this drawing.
Please indicate if you need samples.

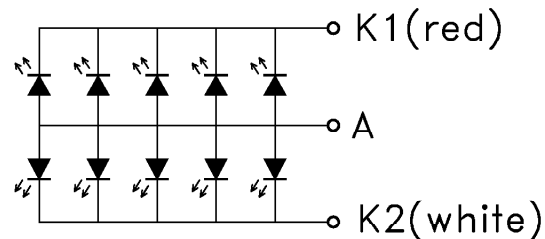
Authorized Signatures

1. MECHANICAL OUTLINE

COLOR : Red+White

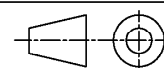
Unspecified Tolerances is ± 0.3 

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 its adhesive power. Storage The products under the condition: temperature ($25^{\circ}\text{C} \pm 10^{\circ}\text{C}$) and humidity ($65\% \text{CRH} \pm 20\% \text{CRH}$) our recommendation.
- The Soldering Temperature is $260 \pm 5^{\circ}\text{C}$ 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 $T_a=25^{\circ}\text{C}$

Item	Symbol	Conditions	Rating		Unit
			(R)	(W)	
* Absolute maximum forward current	Ifm		125	100	mA
* Peak forward current	Ifp	1 msec Plus 10% Duty Cycle	300	200	mA
Reverse Voltage	Vr		5	5	V
* Power dissipation	Pd		250	300	mW
Operating Temperature Range	Topr		$-30\sim+70^{\circ}\text{C}$		$^{\circ}\text{C}$
Storage Temperature Range	Tstg		$-40\sim+80^{\circ}\text{C}$		$^{\circ}\text{C}$

*

For operation above 25°C , The Ifm Ifp & Pd must be derated, the Current derating is $-3.6\text{ mA}/^{\circ}\text{C}$ for DC drive and $-8.6\text{ mA}/^{\circ}\text{C}$ for Pulse drive, the Power dissipation is $-7.5\text{ mW}/^{\circ}\text{C}$. The product working current must not more than the 60 % of the Ifm or Ifp according to the working temperature.

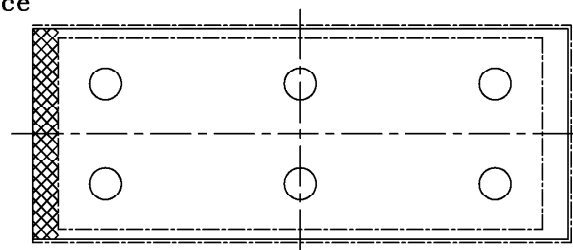
5. ELECTRICAL-OPTICAL CHARACTERISTICS

Unless specified, The Ambient temperature $T_a=25^{\circ}\text{C}$

Item	Symbol	(Red)			(White)			Unit	Condition
		min.	typ.	max.	min.	typ.	max.		
Forward Voltage	Vf	1.9	2.05	2.2	3.1	3.3	3.5	V	If=160mA
Reverse Current	Ir			100			100	μA	Vr= 5 V
Peak wave length	λ_p		590					nm	If=160mA
Spectral Line Half width	$\Delta\lambda$		20			30		nm	If=160mA
* Luminance	Lv							cd/m^2	If=160mA

*

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 $\varnothing 5\text{ mm}$.



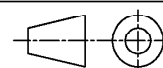
Designed by:

Checked by:

File name:

Unit:

mm



Sheet:

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