

PRODUCT DRAWING	CUSTOMER NO.:	
	FILENAME:	REVISION:
DRAWING OF TB1018S	ORIGINAL DATE: 09 AUG 2005	TOTAL PAGES: 3
<input checked="" type="checkbox"/> INITIATE <input type="checkbox"/> REVISE		EFFECTIVE DATE:
REVISIONS		
REV	DESCRIPTION	DATE
ORIGINATOR		DESIGN MGR.



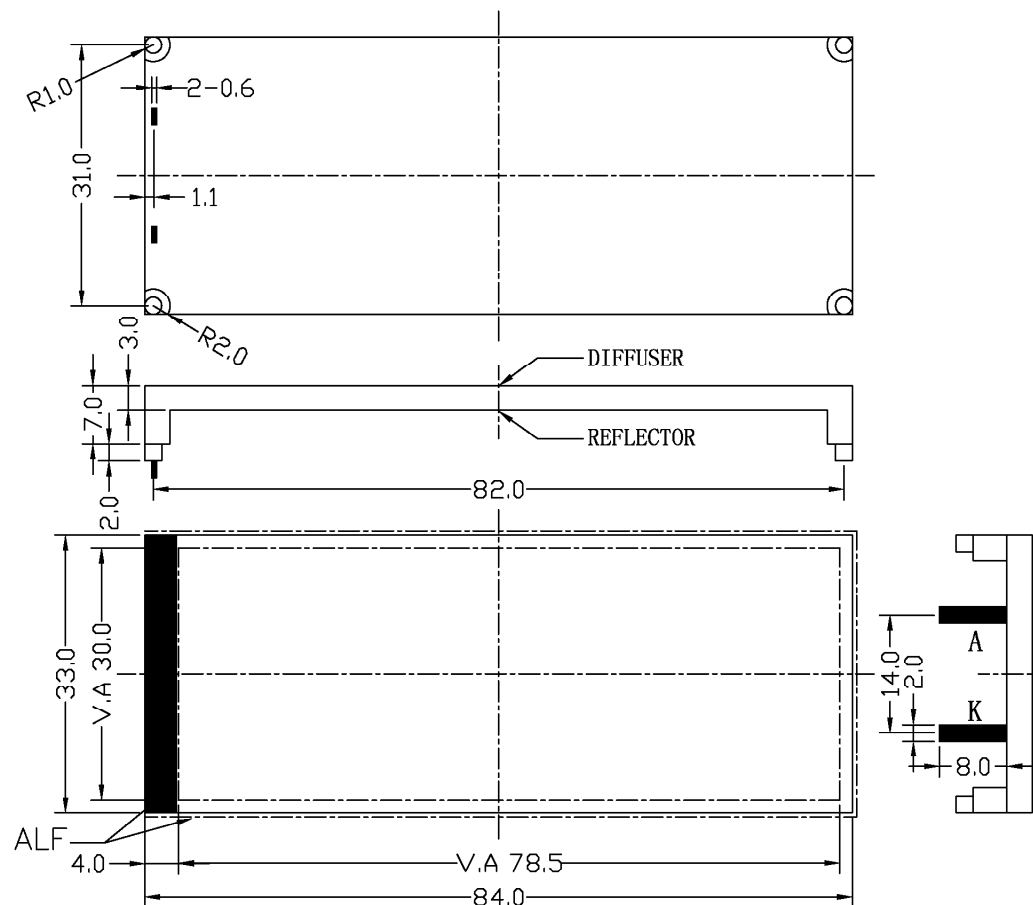
Please sign and fax back this page to confirm this drawing.
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Authorized Signatures

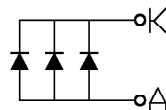
1. MECHANICAL OUTLINE

COLOR : White

REV.

Unspecified Tolerances is ± 0.3 

2. CIRCUIT DIAGRAM (LED 1×3=3 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 ($65^{\circ}\text{CRH} \pm 20^{\circ}\text{CRH}$) 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 is 30W or less than 30W.
- The soldering point should be farther than 1.6mm (1/10") from body .

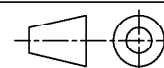
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4. ABSOLUTE MAXIMUM RATINGS

REV.

Ta=25°C. Unless specified, The Ambient temperature Ta=25°C

Item	Symbol	Conditions	Rating	Unit
* Absolute maximum forward current	Ifm		60	mA
* Peak forward current	Ifp	1 msec Plus 10% Duty Cycle	120	mA
Reverse Voltage	Vr		5	V
* Power dissipation	Pd		200	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 Current derating is -1.08 mA/°C for DC drive and -2.58 mA/°C for Pulse drive, the Power dissipation is -2.25 mW/°C. The product working current must not more than the 60 % of the Ifm or Ifp according to the working temperature.

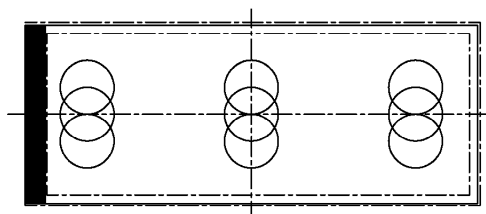
5. ELECTRICAL-OPTICAL CHARACTERISTICS

Ta=25°C. Unless specified, The Ambient temperature Ta=25°C

Item	Symbol	min.	typ.	max.	Unit	Condition
Forward Voltage	Vf	3.1	3.3	3.5	V	If= 30 mA
Reverse Current	Ir			75	μA	Vr= 5 V
Peak wave length	λ_p				nm	If= 30 mA
Spectral Line Half width	$\Delta\lambda$		30		nm	If= 30 mA
* Luminance	Lv				cd/m ²	If= 30 mA

*

The luminance is the average value of 5 points, and
The Lvmax./Lvmin. is less than 1.5 Typical (max 1.7).
The measurement instrument is BM-7/Tes 1330A luminance



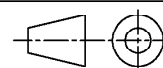
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