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PRODUCT DRAWING	CUSTOMER NO.:	
	FILENAME:	REVISION:
DRAWING OF TB1038S	ORIGINAL DATE: 17 MAY 2006	TOTAL PAGES: 3
	<input checked="" type="checkbox"/> INITIATE <input type="checkbox"/> REVISE	EFFECTIVE DATE:

REVISIONS

REV	DESCRIPTION	DATE

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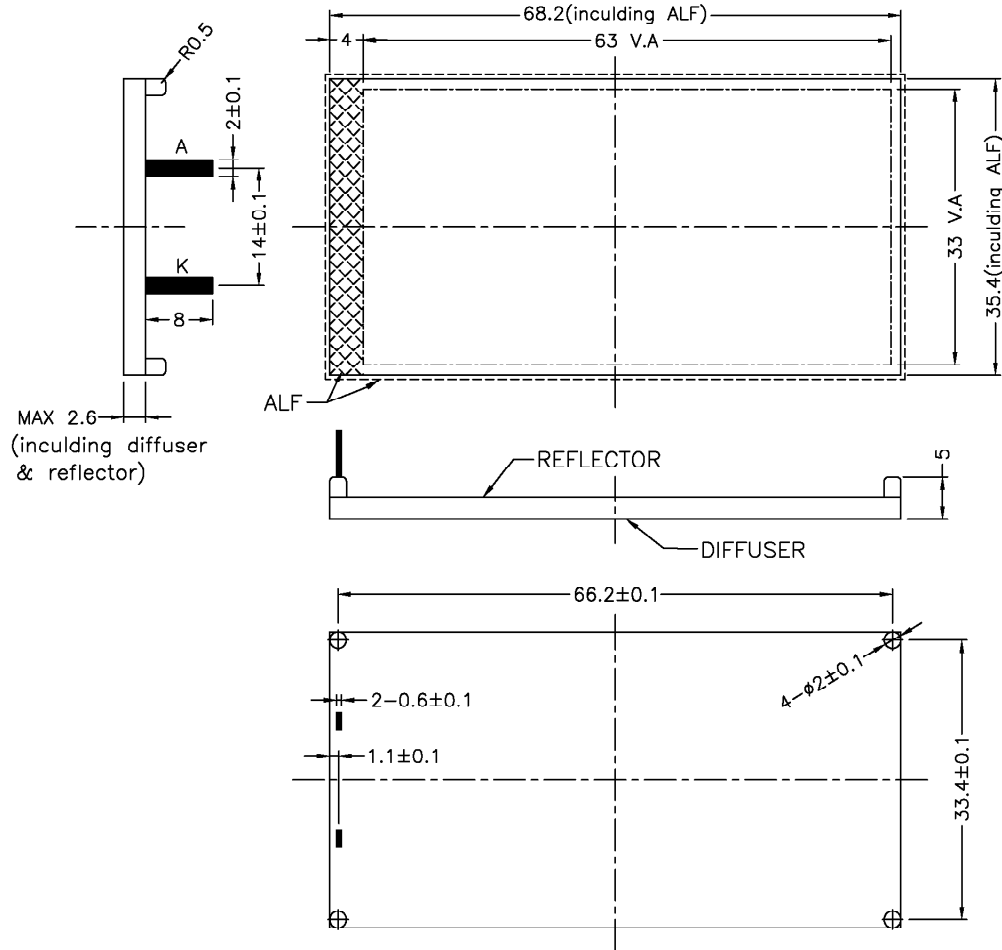
Please sign and fax back this page to confirm this drawing.
Please indicate if you need samples.

Authorized Signatures

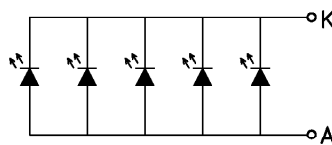
1. MECHANICAL OUTLINE

COLOR : Green

Unspecified Tolerances is ± 0.2

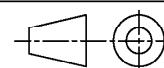


2. CIRCUIT DIAGRAM (LED 1X5=5 dies)



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 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
* Absolute maximum forward current	Ifm		125	mA
* Peak forward current	Ifp	1 msec Plus 10% Duty Cycle	300	mA
Reverse Voltage	Vr		5	V
* Power dissipation	Pd		400	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 $-0.36\text{ mA}/^{\circ}\text{C}$ for DC drive and $-0.86\text{ mA}/^{\circ}\text{C}$ for Pulse drive, the Power dissipation is $-0.75\text{ mW}/^{\circ}\text{C}$. The product working current must not more than the 60 % of the Ifm or Ifp according to the working temperature.

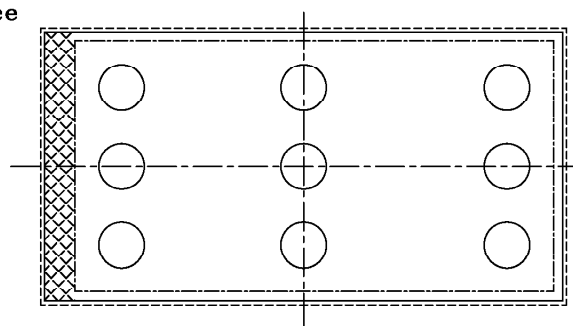
5. ELECTRICAL-OPTICAL CHARACTERISTICS

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

Item	Symbol	min.	typ.	max.	Unit	Condition
Forward Voltage	Vf	3	3.2	3.4	V	If= 50 mA
Reverse Current	Ir			50	μA	Vr= 5 V
Peak wave length	λ_p		525		nm	If= 50 mA
Spectral Line Half width	$\Delta\lambda$		30		nm	If= 50 mA
* Luminance	Lv				cd/m^2	If= 50 mA

*

The luminance is the average value of 9 points, and The $L_{v\text{max.}}/L_{v\text{min.}}$ is less than 1.5 Typical (max 1.7). The measurement instrument is BM-7 luminance Colorimeter. The caperture is $\phi 7\text{ mm}$.



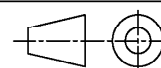
Designed by:

Checked by:

File name:

Unit:

mm



Sheet:

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