

TAIWAN OASIS LED DATA SHEET



Part No.TOL-50bSOICEa/508A-A5M

- ◆Pb free product
- ◆Super Red Emitting LED
- ◆High Efficiency LED,φ5.0mm, Water Clear Package
- ◆The device are made with AlInGaP Light Emitting Diode
- ◆RoHS compliant

Absolute Maximum Ratings

Tamb=25° C,unless otherwise specified

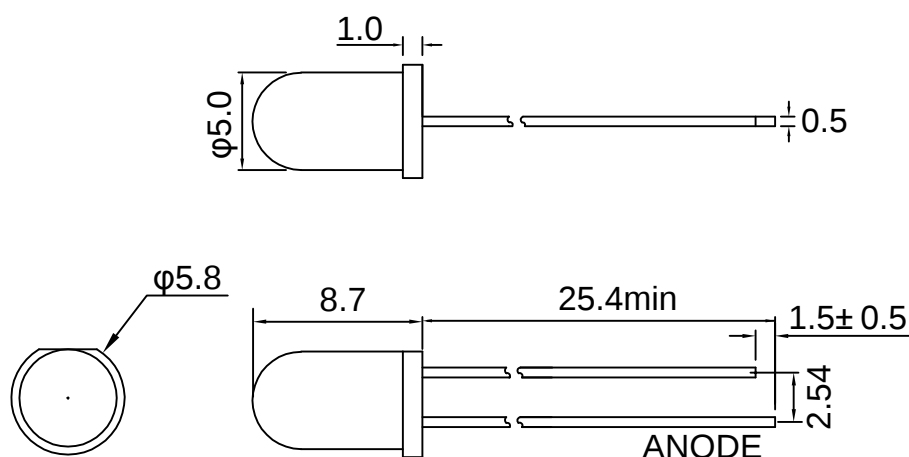
Parameter	Test condition	Symbol	Value	Unit
DC Forward current		If	20	mA
Peak Forward current	1/10 duty cycle@1kHz	Ifp	100	mA
Power dissipation	Tamb≤60°C	Pv	105	mW
Junction temperature		Tj	85	° C
Operating temperature range		Tamb	-40~85	° C
Storage temperature range		Tstg	-40~100	° C
Soldering temperature	3≤t≤5s,2mm from body	Tsd	260	° C

Optical and Electrical Characteristics

Tamb=25° C,unless otherwise specified

Parameter	Test condition	symbol	Min.	Typ.	Max.	unit
Dominant Wavelength	If=20mA	λ_d		625		nm
Spectrum Half Width	If=20mA	$\Delta\lambda$		20		nm
Forward Voltage	If=20mA	Vf		2.2	2.5	v
Reverse Current	Vr=5v	Ir			10	μA
Luminous Intensity	If=20mA	Iv	1540	3000		mcd
Full viewing angle	If=20mA	2θ1/2		30		deg.

Package dimensions & Internal Circuit Diagram



Unit	mm
Scale	—
Rev.	draft
Tolerance	± 0.25 angle± 5°

Drawner	yinyue
Checked	
Approved	

We reserve the right to change to improve technical design and may do so without further notice.

www.taiwanoasis.com.tw

DATE:27-Aug-07