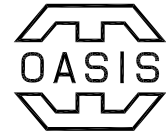


TAIWAN OASIS LED DATA SHEET



Part No.TOL-50aHYaDEa

- ◆ Pb Free Products.
- ◆ Yellow Emitting LED.
- ◆ High Efficiency LED, $\phi 5\text{mm}$, Yellow Diffused Package.
- ◆ The device are made with GaAsP/GaP Light Emitting Diode .
- ◆ ROHS compliant

Absolute Maximum Ratings

$T_{amb}=25^{\circ}\text{C}$, unless otherwise specified

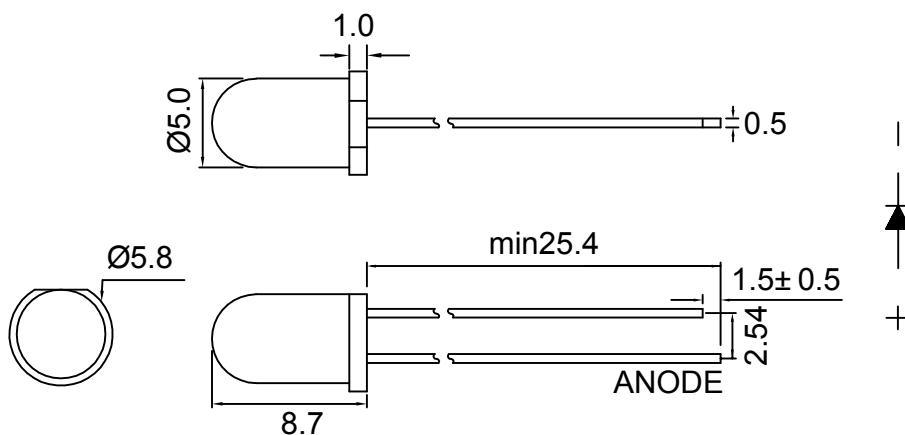
Parameter	Test condition	Symbol	Value	Unit
DC Forward current		I_f	20	mA
Peak Forward current	1/10 duty cycle@1kHz	I_{fp}	100	mA
Power dissipation	$T_{amb}\leq 60^{\circ}\text{C}$	P_v	90	mW
Junction temperature		T_j	85	$^{\circ}\text{C}$
Operating temperature range		T_{amb}	-40~85	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-40~100	$^{\circ}\text{C}$
Soldering temperature	$3\leq t\leq 5\text{s}$, 2mm from body	T_{sd}	260	$^{\circ}\text{C}$

Optical and Electrical Characteristics

$T_{amb}=25^{\circ}\text{C}$, unless otherwise specified

Parameter	Test condition	symbol	Min.	Typ.	Max.	unit
Peak Emission Wavelength	$I_f=20\text{mA}$	λ_p		589		nm
Spectrum Half Width	$I_f=20\text{mA}$	$\Delta\lambda$		35		nm
Forward Voltage	$I_f=20\text{mA}$	V_f		2.1	2.4	v
Reverse Current	$V_r=5\text{v}$	I_r			10	μA
Luminous Intensity	$I_f=20\text{mA}$	I_v	12	25		mcd
Full viewing angle	$I_f=20\text{mA}$	$2\theta_{1/2}$		45		deg.

Package dimensions & Internal Circuit Diagram



Unit	mm
Scale	—
Rev.	draft
Tolerance	± 0.25 angle $\pm 5^{\circ}$

Drawner	Spencer
Checked	
Approved	

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