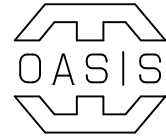


TAIWAN OASIS LED DATA SHEET



Part No.TOIR-50a85bCEa

- ◆ Pb Free product
- ◆ High Power/High Speed/High performance.
- ◆ $\phi 5\text{mm}$, Water Clear Package.
- ◆ The device are made with AlGaAs/AlGaAs Light Emitting Diode .
- ◆ RoHS compliant

Under Development	
Mass Production	●

Absolute Maximum Ratings

Tamb=25° C, unless otherwise specified

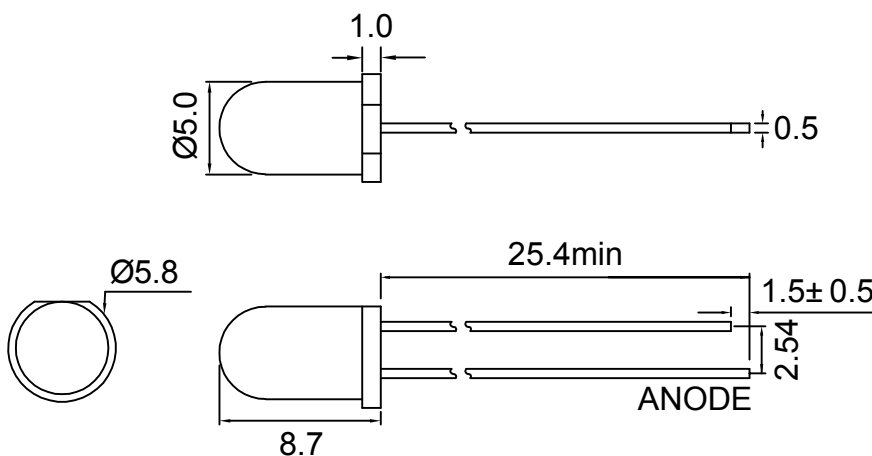
Parameter	Test condition	Symbol	Value	Unit
DC Forward current		IF	100	mA
Peak forward current	duty=1:100, f=100KHZ	IFp	1000	mA
Power dissipation	Tamb \leq 60°C	Pv	105	mW
Junction temperature		Tj	100	° C
Operating temperature range		Tamb	-40~85	° C
Storage temperature range		Tstg	-40~100	° C
Soldering temperature	3s \leq t \leq 5s, 2mm from body	Tsd	260	° C

Optical and Electrical Characteristics

Tamb=25° C, unless otherwise specified

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Radiated Output Power	Po	If=50mA		40		mW/sr
		If=100mA		90		
Forward Voltage	VF	If=50mA		1.5	1.9	V
		If=100mA		1.8	2.2	
Peak Wavelength	λ_p	If=50mA		850		nm
Spectrum Width of Half Value	$\Delta\lambda$	If=50mA		42		nm
Reverse Voltage	VR	IR=10uA	5		8	V
Rise/Fall Time	Tr/Tf	IFdc=50mA		30/15		ns
Full Viewing Angle	2 θ 1/2	If=50mA		15		deg

Package dimensions & Internal Circuit Diagram



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

Drawer	weiking
Checked	
Approved	

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