



# TAIWAN OASIS LED DATA SHEET (FOR INFRARED)

PART NO. : TOIR-30a94cXAa

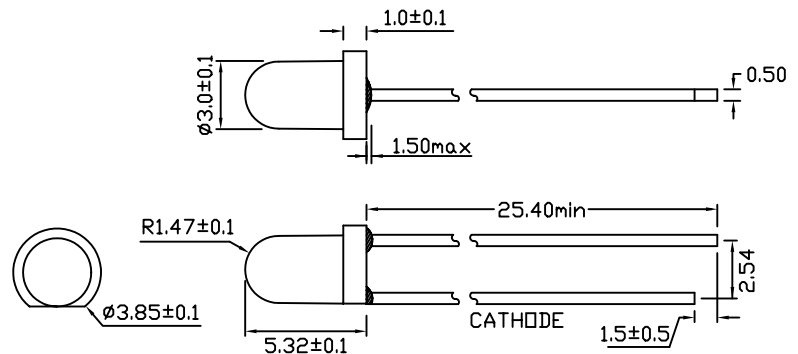
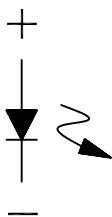
ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	SYMBOL	DATA	UNIT
Forward Current	$I_{FM}$	100	mA
Peak Forward Current (duty=1:100, f=100KHZ)	$I_{FP}$	1000	mA
Reverse Voltage	$V_R$	6	V
Power Dissipation	$P_D$	150	mW
Operating Temperature Range		-25 to +85	°C
Storage Temperature Range		-30 to +85	°C
Lead Sold Temperature (1/10 Inch Below Seating Plane)		260°C for 3 sec.	

ELECTRICAL/OPTICAL CHARACTERISTICS AT TA=25°C

PARAMETER	SYMBOL	DATA	UNIT	TEST CONDITION
Radiated Intensity	$I_e$ (Typ.)	20	mW/sr	Distance: 10cm $I_F=50mA$ Detector Area: 1cm <sup>2</sup>
Forward Voltage	$V_F$	TYP: 1.30 MAX: 1.50	V	$I_F=50mA$
Wavelength	$\lambda_P$	940	nm	$I_F=50mA$
Spectrum Width of Half Value	$\Delta\lambda$	50	nm	$I_F=50mA$
Reverse Current	$I_R$	10	μA	$V_R=5V$
Full Viewing Angle	$2 \times \frac{1}{2}\theta$	20	°	$I_F=20mA$
Lens		Blue Transparent		
Radiation Material		GaAs/GaAs		

## PACKAGE DIMENSIONS & INTERNAL CURCUIT DIAGRAM



DATE	08/21/00'	SCALE	2.5:1	TOLERANCE	±0.25 ANGLE ±5°	DRAWN	M.L.Hua	CHECKED	
UNIT	M/M	SHEET NO.	1/2	DRAWING NO.	S-30a94cXAa-A	CUSTOMER		APPROVED	