



TAIWAN OASIS LED DATA SHEET

PART NO. : TOL-30aUReDAa-U4M

DESCRIPTION

SOURCE MATERIAL ----- AlGaInP
 COLOR ----- Ultra Red
 LENS ----- Red Diffused

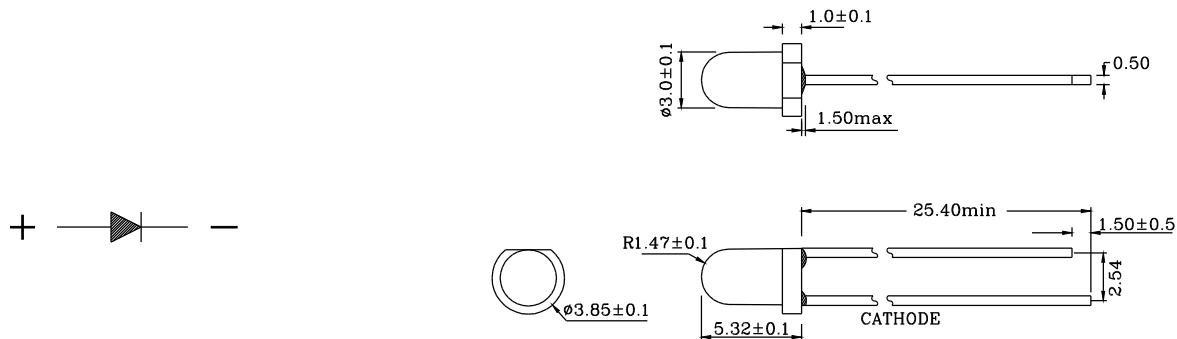
ABSOLUTE MAXIMUM RATING (Ta=25°C)

PULSE CURRENT (1/10 DUTY, CYCLE 0.1ms PULSE WIDTH) ----- 100mA
 REVERSE VOLTAGE ----- 5.0V
 CONTINUOUS FORWARD CURRENT ----- 25mA
 RECOMMEND OPERATING CURRENT ----- 15mA
 OPERATING TEMPERATURE ----- -25°C TO 85°C
 STORAGE TEMPERATURE ----- -30°C TO 100°C
 LEAD SOLDERING TEMPERATURE ----- 260°C FOR 3 SECONDS
 (2mm from body)

CHARACTERISTICS (Ta=25°C)

PARAMETER	CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNITS
POWER DISSIPATION		Pd			90	mW
DOMINANT WAVELENGTH	If=20mA	λ_d		630		nm
SPECTRUM HALF WIDTH	If=20mA	$\Delta\lambda$		15		nm
FORWARD VOLTAGE	If=20mA	V _F		2.0	2.3	V
REVERSE CURRENT	V _R =5V	I _R			100	μA
LUMINOUS INTENSITY	If=20mA	I _v	75	150		mcd
FULL VIEWING ANGLE	If=20mA	2θ _{1/2}		50		deg.

INTERNAL CIRCUIT DIAGRAM



DATE	2002/3/20'	SCALE	2.5:1	TOLERANCE	±0.25 ANGLE ±5°	DRAWN	D Q H	CHECKED	
UNIT	M/M	SHEET NO.	1/1	DRAWING NO.	S-30aUReDAa-U4M-A	CUSTOMER		APPROVED	