



TAIWAN OASIS LED DATA SHEET

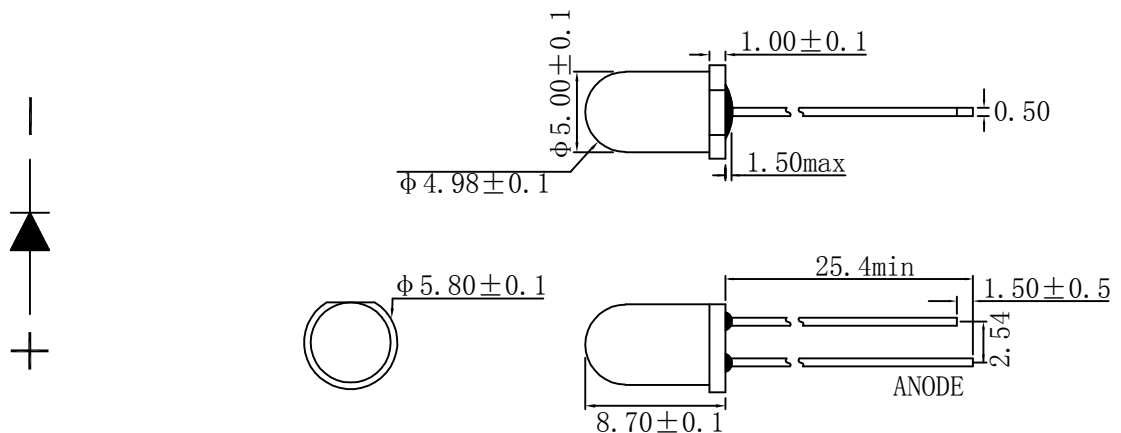
PART NO. :TOL-50bS0rCEa

DESCRIPTION

SOURCE MATERIAL -----AlGaInP
 COLOR -----Super Orange
 LENS -----Water Clear
 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 SEC
 CHARACTERISTICS (Ta=25° C) (2mm from body)

PARAMETER	CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNITS
POWER DISSIPATION		Pd			90	mW
DOMINANT WAVELENGTH	If=20mA	λ_d		623		nm
SPECTRUM HALF WIDTH	If=20mA	$\Delta \lambda$		15		nm
FORWARD VOLTAGE	If=20mA	VF		2.25	2.60	V
REVERSE CURRENT	VR=5V	IR			100	uA
LUMINOUS INTENSITY	If=20mA	Iv	1420	3000		mcd
FULL VIEWING ANGLE	If=20mA	2 θ 1/2		30		deg.

PACKAGE DIMENSIONS & INTERNAL CIRCUIT DIAGRAM



DATE	08/27/04'	SCALE		TOLERANCE	± 0.25 ANGLE $\pm 5^\circ$	DRAWN	nmyun	CHECKED	
UNIT	M/M	SHEET NO.	1/1	DRAWING NO.	S-50bS0rCEa-A	CUSTOMER		APPROVED	