

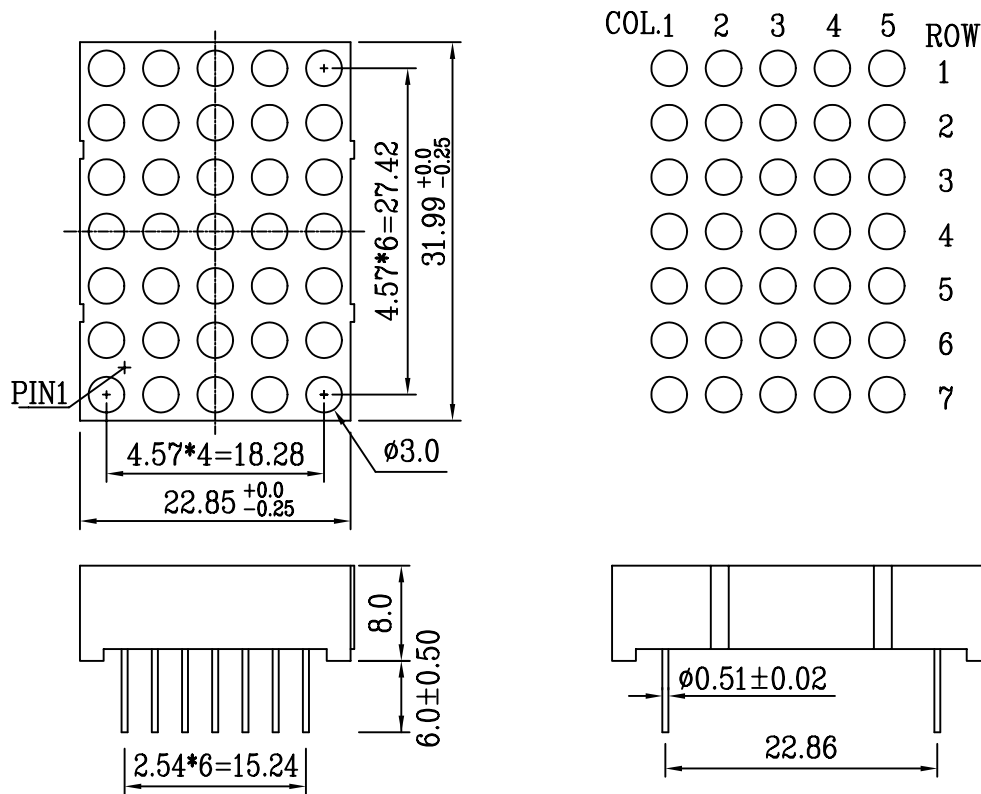


# TAIWAN OASIS LED DATA SHEET

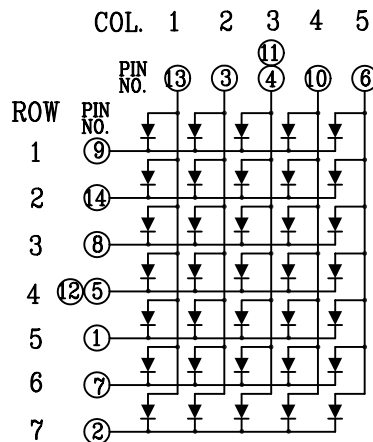
PART NO. : TOM-1157AS-N

APPEARANCE			TECHNOLOGIE	GaAlAs/GaAs (DDH)
FACE	SEGMENT	PIN	SOURCE COLOR	Super-Red
Gray	White	∅0.51x10.28	DRIVER MODE	Row. Cathode
			PACKING	Styrene From

## PACKAGE DIMENSIONS



## INTERNAL CIRCUIT DIAGRAM



DATE	05/25/98'	SCALE	1.5:1	TOLERANCE	.XX ±0.02 . ±0.25 .X ±0.1 ANGLE ±1°	DRAWN	H.X.Yang	CHECKED	
UNIT	M/M	SHEET NO.	1/2	DRAWING NO.	S-1157AS-N-A	DESIGN		APPROVED	



# TAIWAN OASIS LED DATA SHEET

PART NO. : TOM-1157AS-N

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	VALUE	UNITS
Power Dissipation Per Dot	55	mW
Peak Forward Current Per Dot (1/10 Duty Cycle, 0.1ms Pulse Width)	70	mA
Continuous Forward Current Per Dot	18	mA
Reverse Voltage Per Dot	5	V
Derating Linear From 25°C Per Dot	0.3	mA/°C
Operating Temperature Range	-25 to +85	°C
Storage Temperature Range	-30 to +85	°C
Lead Solder Temperature(1/10 Inch Below Seating Plane)	260°C for 3 sec.	

ELECTRICAL/OPTICAL CHARACTERISTICS AT TA=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITION	GRADE
Luminous Intensity Per Dot	I <sub>v</sub>	10384	11941	13499	μcd	I <sub>F</sub> = 10mA	P
Luminous Intensity Per Dot	I <sub>v</sub>	13500	15524	17549	μcd	I <sub>F</sub> = 10mA	R
Luminous Intensity Per Dot	I <sub>v</sub>	17550	20182	22814	μcd	I <sub>F</sub> = 10mA	S
Peak Emission Wavelength	λ <sub>p</sub>		660		nm	I <sub>F</sub> = 20mA	
Spectral Line Half-Width	Δλ		20		nm	I <sub>F</sub> = 20mA	
Forward Voltage Per Dot	V <sub>F</sub>	1.7	1.8	2.0	V	I <sub>F</sub> = 20mA	
Reverse Current Per Dot	I <sub>R</sub>			20	μA	V <sub>R</sub> = 5V	
Luminous Intensity Matching Rate	I <sub>v</sub> -m			1.5:1		I <sub>F</sub> = 20mA	

DATE	05/25/98	SCALE		TOLERANCE		DRAWN	H.X.Yang	CHECKED	
UNIT		SHEET NO.	2/2	DRAWING NO.	S-1157AS-N-A	DESIGN		APPROVED	