



# TAIWAN OASIS LED DATA SHEET

PART NO. : TOS-5121AMG-5B

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	VALUE	UNITS
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA
Continuous Forward Current Per Segment	20	mA
Recommend Operating Current	12	mA
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-25 to +85	°C
Storage Temperature Range	-30 to +85	°C
Junction Temperature	+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 Segment	I <sub>v</sub>	7888	9186	10383	μcd	I <sub>f</sub> =10mA	N
Luminous Intensity Per Segment	I <sub>v</sub>	10384	11941	13499	μcd	I <sub>f</sub> =10mA	P
Dominant Emission Wavelength	λ <sub>d</sub>		575		nm	I <sub>f</sub> =20mA	
Spectral Line Half-Width	Δλ		15		nm	I <sub>f</sub> =20mA	
Forward Voltage Per Segment	V <sub>f</sub>	1.8	2.0	2.3	V	I <sub>f</sub> =20mA	
Reverse Current Per Segment	I <sub>r</sub>			100	μA	V <sub>R</sub> =5V	
Luminous Intensity Matching Rate	I <sub>v</sub> -m			2.0:1		I <sub>f</sub> =20mA	

Notes: Above specification may be changed without notice.

DATE	11/14/03	SCALE		DRAWING NO.	S-5121AMG-5B-A	DRAWN	Z.W	CHECKED	
UNIT		SHEET NO.	2/2	CUSTOMER					