

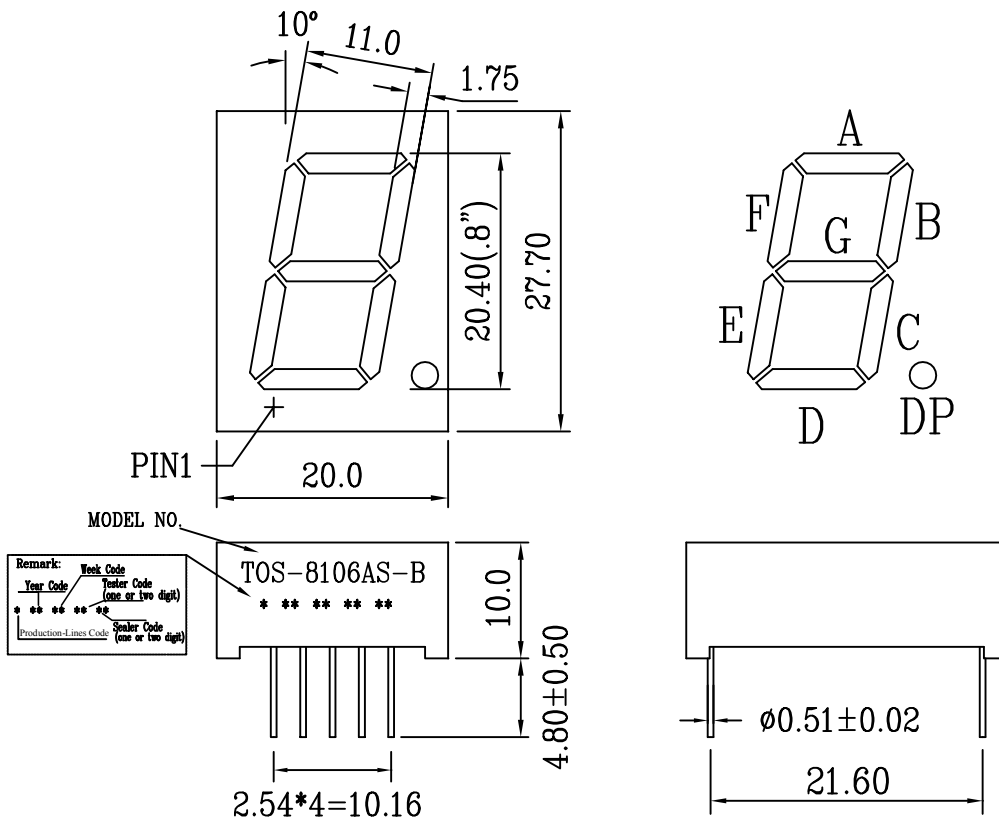


# TAIWAN OASIS LED DATA SHEET

PART NO. : TOS-8106AS-B

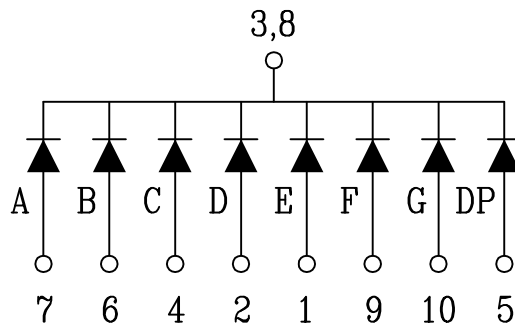
APPEARANCE			TECHNOLOGY	GaAlAs/GaAs
FACE	SEGMENT	PIN	SOURCE COLOR	Super-red
Black	White	∅0.51x10.28	DRIVER MODE	Com. Cathode
			PACKING	"F" Plastic Box

## PACKAGE DIMENSIONS



NORMAL TOLERANCE: ±0.25 ANGLE: ±1°

## INTERNAL CIRCUIT DIAGRAM



DATE	07/09/07'	SCALE	1.5:1	DRAWING NO.	S-8106AS-B-A	DRAWN	L.X.Y	CHECKED	
UNIT	M/M	SHEET NO.	1/2			CUSTOMER		APPROVED	



# TAIWAN OASIS LED DATA SHEET

PART NO. : TOS-8106AS-B

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	25	mA
Recommend Operating Current	15	V
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 Free Solder Temperature(1/16 Inch Below Seating Plane)	260°C for 3 sec.	

ELECTRICAL/OPTICAL CHARACTERISTICS AT TA=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNITS	TEST CONDITION
Luminous Intensity Per Segment	I <sub>v</sub>	7988	11941		ucd	I <sub>F</sub> =10mA
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 Segment	V <sub>F</sub>	1.7	1.8	2.0	V	I <sub>F</sub> =20mA
Reverse Current Per Segment	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

Notes:Above specification may be changed without notice.

DATE	07/09/07'	SCALE	_____	DRAWING NO.	S-8106AS-B-A	DRAWN	L.X.Y	CHECKED	
UNIT	_____	SHEET NO.	2/2			CUSTOMER		APPROVED	