

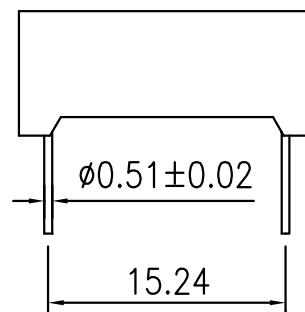
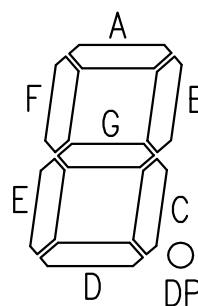
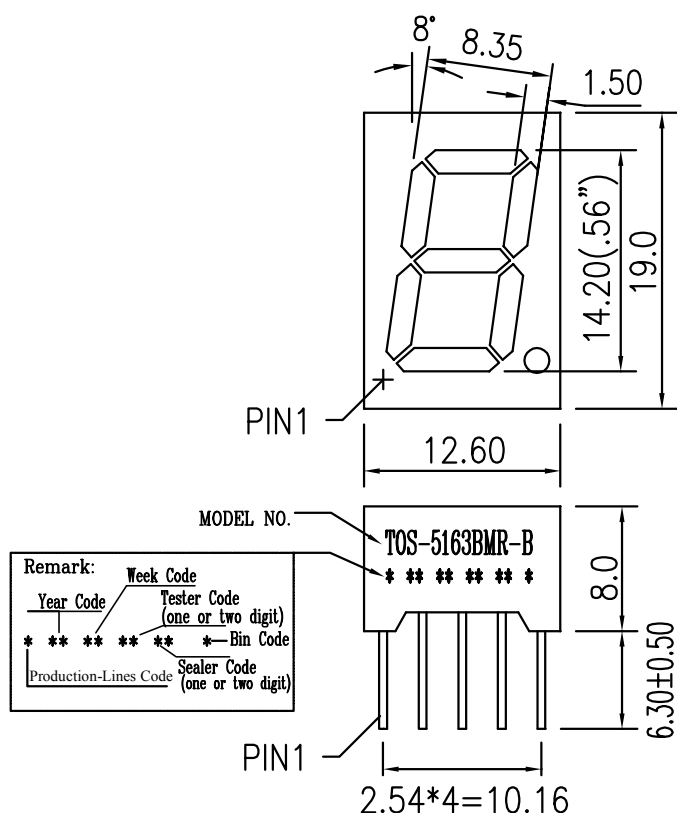


TAIWAN OASIS LED DATA SHEET

PART NO. : TOS-5163BMR-B

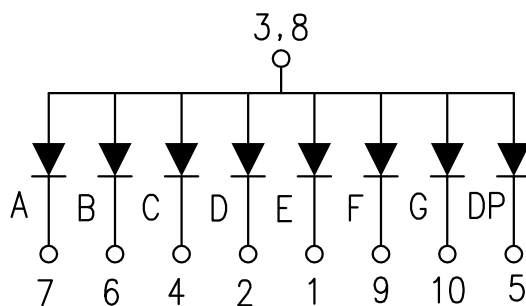
APPEARANCE			TECHNOLOGY	AlGaInP/GaAs
FACE	SEGMENT	PIN	SOURCE COLOR	Ultra-red
Black	White	ø0.51x10.28	DRIVER MODE	Com. Anode
			PACKING	Tube(5263)

PACKAGE DIMENSIONS



NORMAL TOLERANCE: ± 0.25 ANGLE: $\pm 1^\circ$

INTERNAL CIRCUIT DIAGRAM



DATE	09/05/07'	SCALE	2:1	DRAWING NO.	S-5163BMR-B-A	DRAWN	W.F.H	CHECKED	
UNIT	M/M	SHEET NO.	1/2			CUSTOMER	ES017	APPROVED	



TAIWAN OASIS LED DATA SHEET

PART NO. : TOS-5163BMR-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	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 Free Sold 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	GRADE
Luminous Intensity Per Segment	I _v	13500	15524	17549	ucd	I _F =10mA	R
Luminous Intensity Per Segment	I _v	17550	21937	26325	ucd	I _F =10mA	S
Luminous Intensity Per Segment	I _v	26326	32907	39489	ucd	I _F =10mA	T
Dominant Emission Wavelength	λ _d		630		nm	I _F =20mA	
Spectral Line Half-Width	Δλ		15		nm	I _F =20mA	
Forward Voltage Per Segment	V _F	1.8	2.0	2.3	V	I _F =20mA	
Reverse Current Per Segment	I _R			100	μA	V _R =5V	
Luminous Intensity Matching Rate	I _v -m			2.0:1		I _F =20mA	

DATE	09/05/07'	SCALE	_____	DRAWING NO.	S-5163BMR-B-A	DRAWN	W.F.H	CHECKED	
UNIT	_____	SHEET NO.	2/2			CUSTOMER	ESO17	APPROVED	