DATASHEET

Oasistek®
Bright Ideas. Bright Solutions.

FC first components

TOS-2141BMRL-N

Single Digit Display LED

Part Number	Chip		Face Color	Segment Color
	Material	Source Color		
TOS-2141BMRL-N	AlGaInP	Ultra red	Gray	White

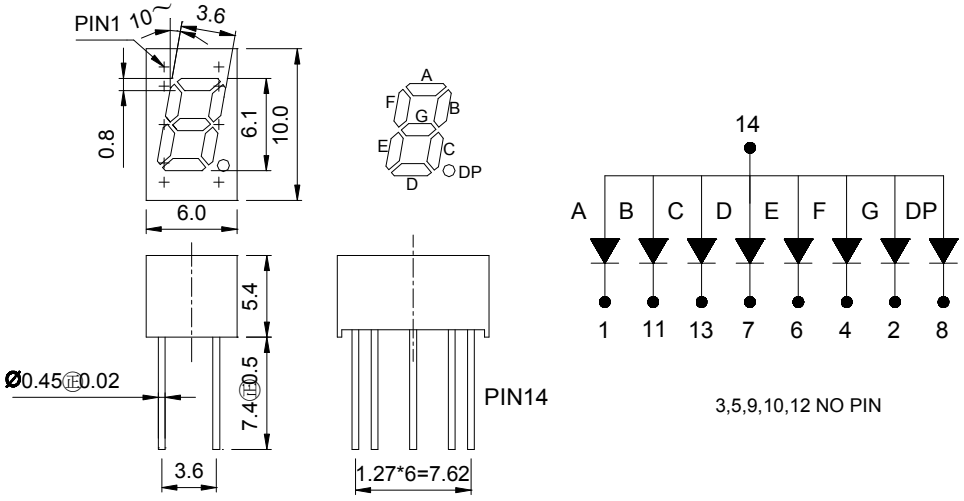
Features

- (0.24")6.10mm digit height
- Common anode
- I.C. compatible
- Low power requirement
- RoHS compliant

Applications

- Audio equipment
- Instrument panels
- Digital read out display

Package Dimensions & Internal Circuit Diagram



Notes:
1. All dimensions are in millimeters, tolerance: ±0.25 ; Angle: ±0.1° unless otherwise noted.
2. Specifications are subject to change without notice.

Absolute Maximum Rating @ Ta=25°C

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA
Power Dissipation	75	mW
Continuous Forward Current	20	mA
Recommend Operating Current	12	mA
Reverse Voltage	5	V
Operating Temperature Range	-25°C to +85°C	
Storage Temperature Range	-30°C to +85°C	
Lead-Free Solder Temperature(1/16 Inch Below Seating Plane)	260°C for 5 Sec	

Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition	Grade
Luminous Intensity	Iv	6.5	9.5	---	mcd	I_F=10mA	
Dominant Wavelength	λ_d	637	640	643	nm	I_F=20mA	
Spectral Line Half-Width	△λ		15		nm	I_F=20mA	
Forward Voltage	V_F	1.8	2.0	2.3	V	I_F=20mA	
Reverse Current	I_R			50	μA	V_R=5V	
Luminous Intensity Matching Rate	Iv-m			2.0:1		I_F=20mA	

The DISPLAYS should be kept at 30°C or less and 60%RH or less. The DISPLAYS should be used within one year.