

# TOS-F2101AcW-N-HF

## Single Digit SMD Display LED

Part Number	Chip		Face Color	Segment Color
	Material	Source Color		
TOS-F2101AcW-N-HF	InGaN	White	Gray	White

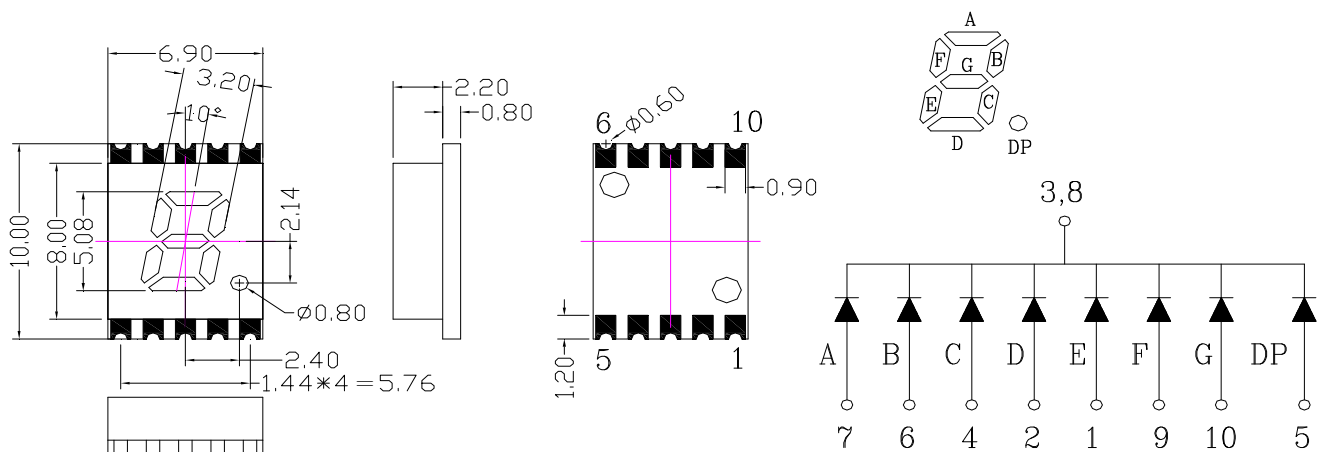
### Features

- (0.20") 5.08mm digit height
- Common cathode
- I.C. compatible
- Low power consumption
- RoHS compliant
- Moisture sensitivity level:2a

### Applications

- Audio equipment
- Instrument panels
- Digital read out display

### Package Dimensions & Internal Circuit Diagram



#### Notes:

1. All dimensions are in millimeters, tolerance:  $\pm 0.25$  ; Angle:  $\pm 0.1^\circ$  unless otherwise noted.
2. Specifications are subject to change without notice.

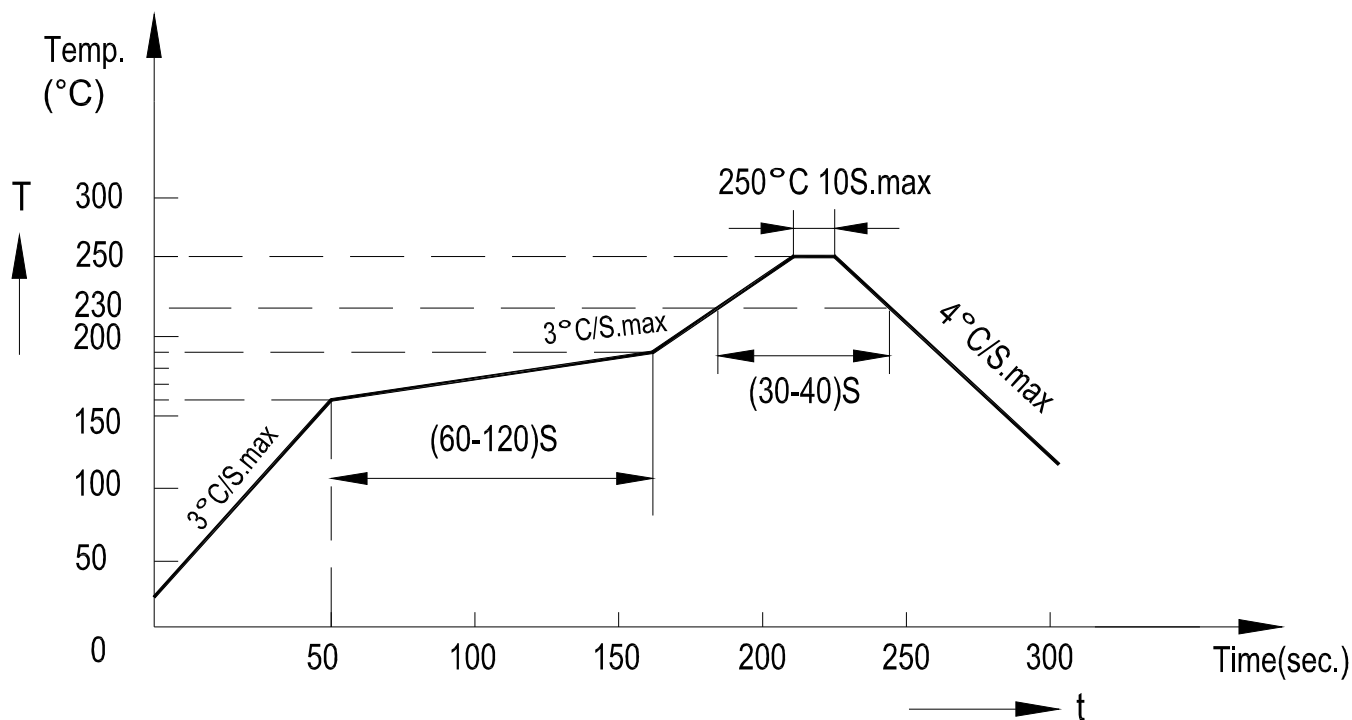
### Absolute Maximum Rating @ Ta=25°C

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA
Power Dissipation	105	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	250°C for 10 Sec	

### Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition	Grade
Color Temperature	T <sub>c</sub>		5200		K	I <sub>F</sub> =20mA	
Chromaticity Coordinates	X		0.33		nm	I <sub>F</sub> =20mA	
Chromaticity Coordinates	Y		0.35		nm	I <sub>F</sub> =20mA	
Spectral Line Half-Width	Δλ		18		nm	I <sub>F</sub> =20mA	
Forward Voltage Per Dice	V <sub>F</sub>		3.2	3.5	V	I <sub>F</sub> =20mA	
Reverse Current Per Dice	I <sub>R</sub>			100	μA	V <sub>R</sub> =5V	
Luminous Intensity Matching Rate	Iv-m			2.0:1		I <sub>F</sub> =20mA	

## Soldering Profile



Number of reflow process shall be 2 times or less

1. Manual soldering temperature : Max 320°C for 3 Sec.
2. Can be second manual soldering, but must be cooling before second manual soldering, In order to guarantee the soldered area is to be smoothly covered with soldering, can delay the soldering time, but not to exceed 20s every pad, because if that, the pad will be damaged.
3. The minimum distance of display seating plan to soldering bath is 1.6mm.

### Recommended Soldering Pattern and Storage Condition

