

TOS-F2181AcB-B-HF

SMD Display LED

Part Number	Chip		Face Color	Segment Color
	Material	Source Color		
TOS-F2181AcB-B-HF	InGaN	Hi-blue	Black	White

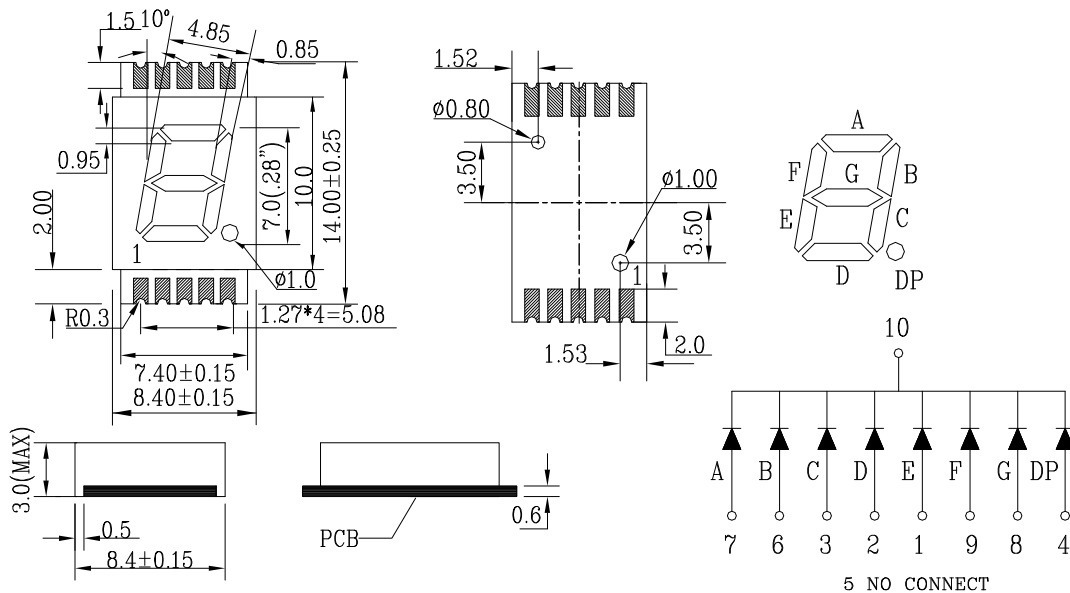
Features

- (0.28") 7.00mm digit height
- Common cathode
- I.C. compatible
- Low power consumption
- 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: $\pm 0.1^\circ$ unless otherwise noted.
2. Specifications are subject to change without notice.

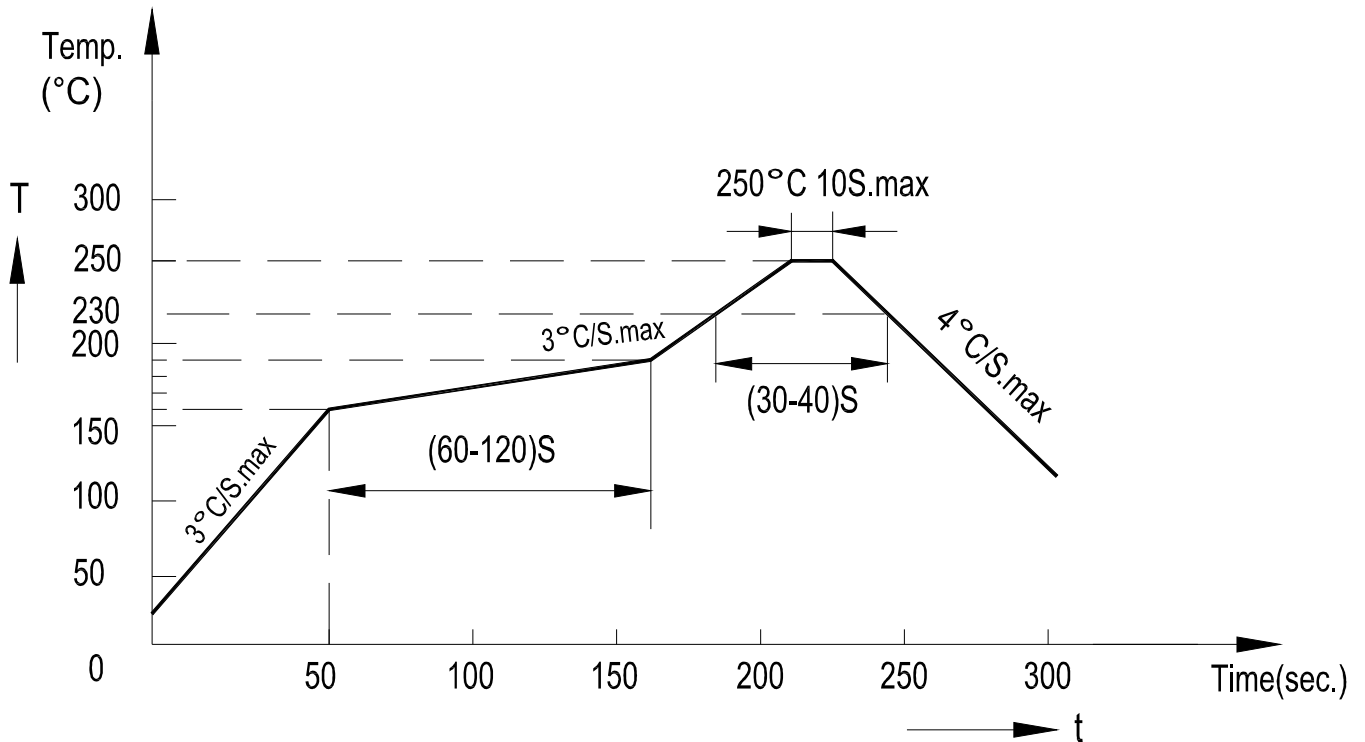
Absolute Maximum Rating @ Ta=25°C

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) Per Dice	80	mA
Power Dissipation Per Dice	105	mW
Continuous Forward Current Per Dice	20	mA
Recommend Operating Current Per Dice	12	mA
Reverse Voltage Per Dice	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

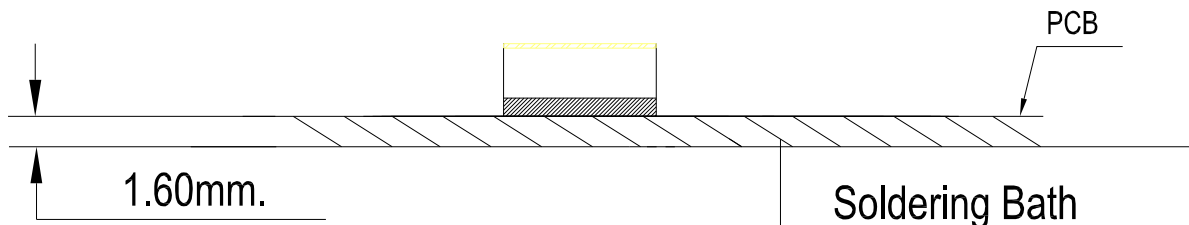
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition	Grade
Dominant Wavelength	λ_d	---	465	---	nm	$I_F=20\text{mA}$	
Spectral Line Half-Width	$\Delta\lambda$		26		nm	$I_F=20\text{mA}$	
Forward Voltage	V_F		2.8	3.0	V	$I_F=20\text{mA}$	
Reverse Current	I_R			10	μA	$V_R=5\text{V}$	
Luminous Intensity Matching Rate	lv-m			2.0:1		$I_F=20\text{mA}$	

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.



Package Description

