

TSM240128A Series

Display Feature

Item	Value
Structure	COB With Metal Frame
LCD Display Mode	STN-Blue, Negative, Transmissive
Viewing Angle	6H
Driving Method	1/128 duty, 1/12 bias
Backlight	White LED Backlight
Control/Driver IC	T6963 / RA8803



Mechanical Data

Item	Value
Outline	144.0 x 104.0 x 14.6Max.
Viewing Area	114.0 x 64.0
Active Area	107.95 x 57.55
Dot Pitch	0.45 x 0.45
Dot Size	0.40 x 0.40

Absolute Maximum

Item	MIN.	MAX.
Operating Voltage(V)	0	6.0
Operating Temperature(°C)	-20	+70
Storage Temperature(°C)	-30	+80

Electrical Characteristics

Item	Symbol	MIN.	TYP.	MAX
Operating Voltage(V)	V _{DD}	4.5	5.0	5.5
Input High Voltage(V)	V _{IH}	0.8V _{DD}	-	V _{DD}
Input Low Voltage(V)	V _{IL}	V _{SS}	-	0.2V _{DD}
Operating Current(mA)	I _{DD}	-	4.0	-
Forward Voltage(V)	V _f BL	-	5.0	-
Forward Current(mA)	I _f BL	-	150	200

Terminal Function

No.	Pin Name	Descriptions
1	VSS	Power Supply, (0V)
2	VDD	Positive Power Supply
3	V0	LCD Contrast Reference Supply
4	RS	Register Select
5	/RD	Read Control Bus
6	/WR	Write Control Bus
7	DB0	Data Bus Line
:	:	
14	DB7	
15	/CS1	Chip Enable
16	CS2	Chip Enable
17	/RET	Reset Signal
18	VOUT	Negative voltage output for LCD
19	BLA	Backlight Power Supply Anode
20	BLK	Backlight Power Supply Cathode

Outline Drawing

