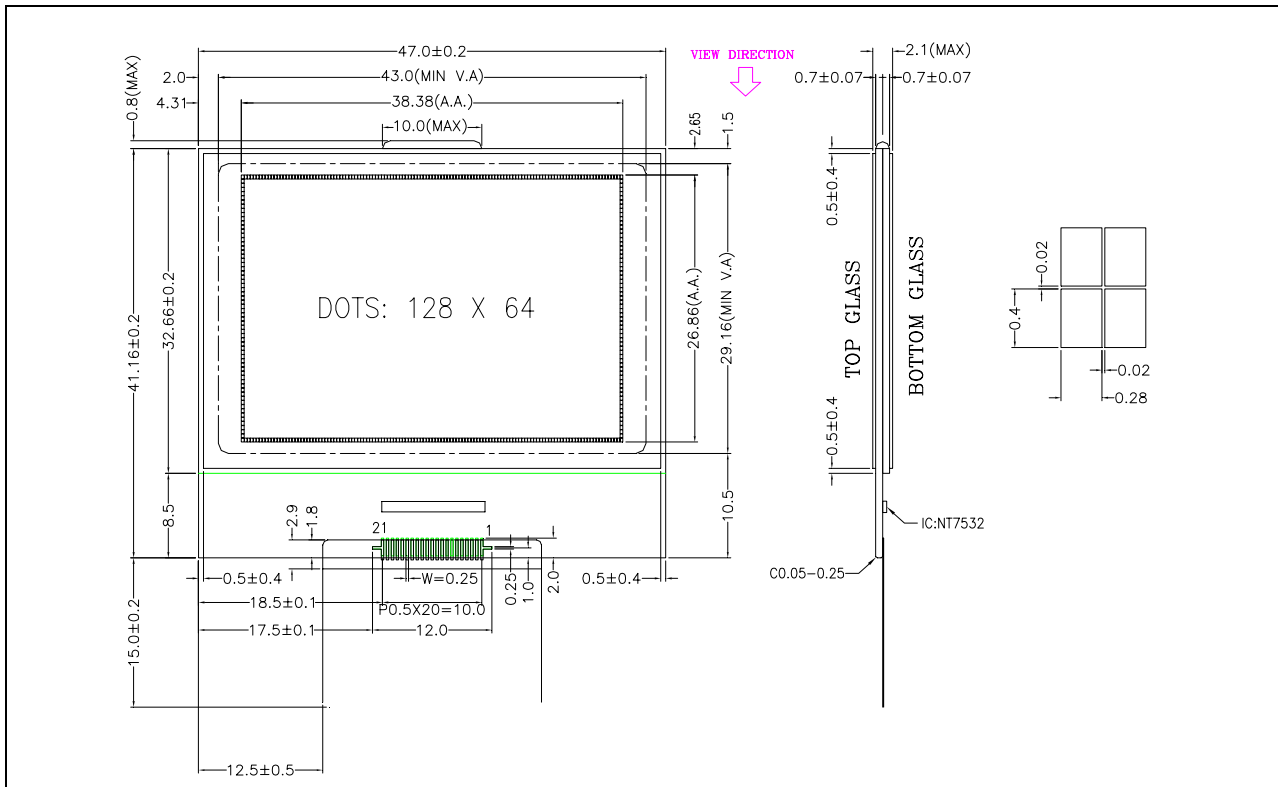


HGO12864A

1/64DUTY 1/9BIAS



PIN CONNECTIONS

Pin	Symbol	Function
1	NC	No connection
2	VLC1	LCD driver supply voltages
3	VLC2	LCD driver supply voltages
4	VLC3	LCD driver supply voltages
5	VLC4	LCD driver supply voltages
6	VLC5	LCD driver supply voltages
7	CAP3-	Connect a capacitor to CAP3+
8	CAP3+	Connect a capacitor to CAP3-
9	CAP2-	Connect a capacitor to CAP2+
10	CAP2+	Connect a capacitor to CAP2-
11	CAP1-	Connect a capacitor to CAP1+
12	CAP1+	Connect a capacitor to CAP1-
13	VLCD	High voltage lcd supply connect a capacitor to Vss
14	V _{SS}	GND
15	V _{DD}	+3V logic supply voltage
16	SI	The serial data input terminal
17	SCL	The serial clock input terminal
18	A0	H: data L: Instruction code
19	RES	Reset signal
20	CS1	Chip select
21	NC	

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H X T)	47.0X56.16X2.1	mm
Viewing Area (W x H)	43.0X29.16	mm
Dot Pitch (W x H)	0.30X0.42	mm
Dot Size (W x H)	0.28X0.40	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	-0.3	3.6	V
Supply Voltage (LCD)	V _O	-0.3	13.5	V
Input Voltage	V _I	-0.3	V _{DD} +0.3	V
Operating Temp.	T _{OPR}	-20	70	
Storage Temp.	T _{STG}	-30	80	

ELECTRICAL CHARACTERISTICS (V_{DD}=3.0V, T_a=25)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.8V _{DD}	-	V _{DD}	V
Input Low Voltage	V _{IL}	V _{SS}	-	0.2 V _{DD}	V
Output High Voltage	V _{OH}	0.8V _{DD}	-	V _{DD}	V
Output Low Voltage	V _{OL}	V _{SS}	-	0.2 V _{DD}	V
Supply Current	I _{DD}	-	-	-	uA
LCD Driving Voltage	V _O	4.5	-	11.5	V

LED BACKLIGHT SPECIFICATIONS (T_a=25)

Item	Forward Voltage	Forward Current
White	3.0V	15mA