

BTF028B-EHN\$



● Feature

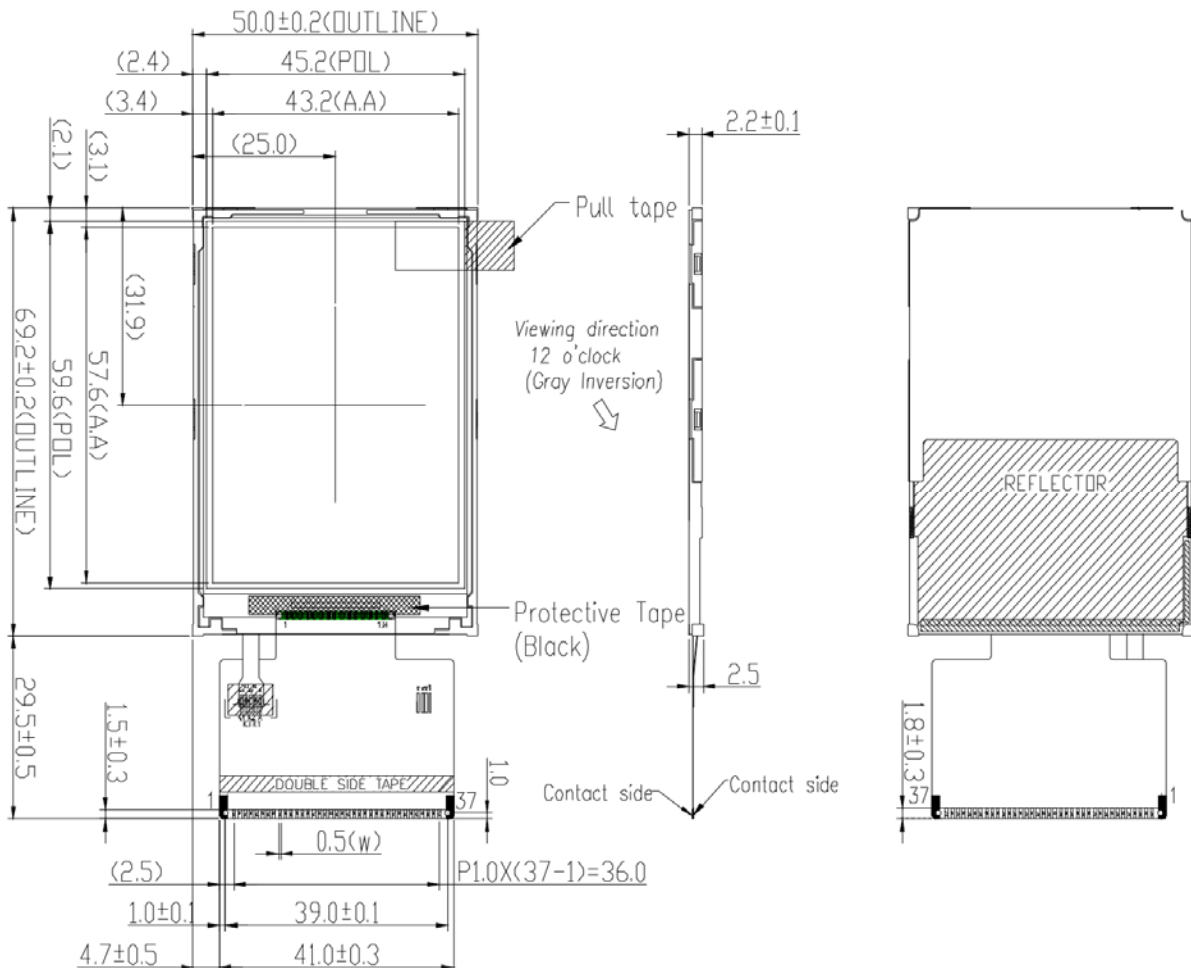
1. 2.8" TFTLCD
2. Resolution:240*RGB*320
3. DisplayType:TFT/Transmissive/Normally white
4. Colors:262K
5. InterfaceType:MCU
6. Drive IC:ST7789V
7. Surface Luminance:280cd/m²
8. Top:-20°C~70°C

● Mechanical Data

1. Module(WxHxT)(mm):50.0*69.2*2.2
2. Active Area(mm):43.2*57.6
3. LED Numbers:4 LEDs



● Mechanical Drawing



● Interface Pin Function

Pin No.	Symbol	I/O	Function	Remark
1	DB1	I/O	Data bus.	
2	DB2	I/O	Data bus.	
3	DB3	I/O	Data bus.	
4	DB4	I/O	Data bus.	
5	GND	P	Ground	
6	VCC	P	Power supply for logic voltage.	
7	/CS	I	A chip select signal. Low: the ILI9341 is selected and accessible. High: the ILI9341 is not selected and not accessible	
8	RS	I	A register select signal. Low: select an index or status register, High: select a control register.	
9	/WR	I	A write strobe signal and enables an operation to write data when the signal is low.	
10	/RD	I	A read strobe signal and enables an operation to read out data when the signal is low.	
11	NC	-	No connection	
12	NC	-	No connection	
13	NC	-	No connection	
14	NC	-	No connection	
15	NC	-	No connection	
16	LEDA	P	Anode of LED backlight.	
17	LEDK4	P	Cathode of LED backlight.	
18	LEDK3	P	Cathode of LED backlight.	
19	LEDK2	P	Cathode of LED backlight.	
20	LEDK1	P	Cathode of LED backlight.	
21	NC	-	No connection	
22	DB5	I/O	Data bus.	
23	DB10	I/O	Data bus.	
24	DB11	I/O	Data bus.	
25	DB12	I/O	Data bus.	
26	DB13	I/O	Data bus.	
27	DB14	I/O	Data bus.	
28	DB15	I/O	Data bus.	
29	DB16	I/O	Data bus.	
30	DB17	I/O	Data bus.	
31	/RESET	I	A reset pin. Initializes the ILI9341 with a low input. Be sure to execute a power-on reset after supplying	
32	VCC	P	Power supply voltage.	
33	VCC	P	Power supply voltage.	
34	GND	P	Ground	
35	DB6	I/O	Data bus.	
36	DB7	I/O	Data bus.	
37	DB8	I/O	Data bus.	

● Electrical Characteristics

Item	Symbol	Min.	Typ.	Max.	Unit	Remark
Power supply	VCI	2.5	2.8	3.3	V	
	IOVCC	1.65	2.8	3.3	V	
	IDD	--	--	20	mA	
Input Voltage for logic	H Level	V_{IH}	$0.7 \times IOVCC$	--	IOVCC	V
	L Level	V_{IL}	VSS	--	$0.3 \times IOVCC$	V
Output Voltage for logic	H Level	V_{OH}	$0.8 \times IOVCC$	--	IOVCC	V
	L Level	V_{OL}	VSS	--	$0.2 \times IOVCC$	V
Power consumption	8 Color Mode	--	20.72	29.7	mW	
	Sleeping Mode	--	19.6	28.05	uW	