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		Connector:14	5863050024829)+			
NO.	Symbol	Description	NO.	Symbol	Description		
1	GND	Ground	2	NC	No Connection		
3	PNSLV	Main port select	4	VSP	Positive power		
5	BLUPWM	BLU duty control	6	NC	No Connection		
7	TE	TE signal output	8	VSN	Negative power		
9	RESET	DDIC reset signal	10	GND	Ground		
11	GND	Ground	12	DSIB_D3_P	MIPI-DSI-Data lane		
13	DSIB_D0_P	MIPI-DSI-Data lane	14	DSIB_D3_N	MIPI-DSI-Data lane		
15	DSIB_D0_N	MIPI-DSI-Data lane	16	GND	Ground		
17	GND	Ground	18	DSIB_CLK_P	MIPI-DSI-Clock lane		
19	DSIB_D1_P	MIPI-DSI-Data lane	20	DSIB_CLK_N	MIPI-DSI-Clock lane		
21	DSIB_D1_N	MIPI-DSI-Data lane	22	GND	Ground		
23	GND	Ground	24	DSIB_D2_P	MIPI-DSI-Data lane		
25	DSIA_D2_N	MIPI-DSI-Data lane	26	DSIB_D2_N	MIPI-DSI-Data lane		
27	DSIA_D2_P	MIPI-DSI-Data lane	28	GND	Ground		
29	GND	Ground	30	DSIA_D1_N	MIPI-DSI-Data lane		
31	DSIA_CLK_N	MIPI-DSI-Clock lane	32	DSIA_D1_P	MIPI-DSI-Data lane		
33	DSIA_CLK_P	MIPI-DSI-Clock lane	34	GND	Ground		
35	GND	Ground	36	DSIA_D0_N	MIPI-DSI-Data lane		
37	DSIA_D3_N	MIPI-DSI-Data lane	38	DSIA_D0_P	MIPI-DSI-Data lane		
39	DSIA_D3_P	MIPI-DSI-Data lane	40	GND	Ground		
41	GND	Ground	42	NC	No Connection		
43	ID0	ID Pin(low: 0)	44	LED+	LED Positive power		
45	ID1	ID Pin (high: 1)	46	NC	No Connection		
47	IOVCC1	Power for digital circuit	48	LED1-	LED Negative power		
49	IOVCC2	Power for digital circuit	50	LED2-	LED Negative power		

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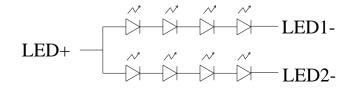


TFT LCD Panel

Items	Symbol	Min.	Тур.	Max.	Unit
Logic voltage	VDDI	-	1.8	-	V
Positive Analog Power Supply Voltage	VSP	-	6.0	-	V
Negative Analog Power Supply Voltage	VSN	-	-6.0	-	V

Backlight (20% duty)

Item	Symbol	Min.	Тур.	Max.	Unit
Forward Voltage	VBL	-	6.5	-	V
Forward Current	IBL	-	45	_	mA
Power Consumption	PBL	-	468	-	mW
LED Quantity 8 (2 in1)					





14. Power Supply On/Off Timing Specification

R63455 can be operated by supplying the VSP and VSN power supplies directly.

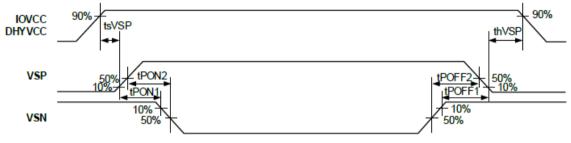


Figure 8. Power supply on/off timing

Table 23. Power supply timing specifications

Item	Symbol	Unit	Test Condition	Minimum	Maximum
VSP-VSN delay time (10% to 10%)	tPON1	μs	Power on	0	-
VSP-VSN delay time (50% to 50%)	tPON2	μs	Power on	0	_
System power on to VSP ON time	tsVSP	ms	Power on	1	_
VSN-VSP delay time (10% to 10%)	tPOFF1	μs	Power off	0	_
VSN-VSP delay time (50% to 50%)	tPOFF2	μs	Power off	0	_
VSP OFF to system power OFF time	thVSP	μs	Power off	0	_

Note: For more information, see section 18.6 (Reset Timing Characteristics) in this document.

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Reset timing at power supply on

Table 34. Reset timing characteristics

Table 34. Reset timing characteristics							
Item	Symbol	Unit	Test Condition	Minimum	Typical	Maximum	
Reset low-level width1	tRW1	μs	Power supply on	3000	-	-	
Reset low-level width2	tRW2	μν	Operation	1000	-	-	
Reset low-level width3	tRW5	ms	Power supply off	25	-		
Reset to MIPI command	tRT1	ms	Sleep in	20	-	-	
Noise reject width	tRESNR	μs	-	-	-	1	



Figure 14. Reset reject pulse width

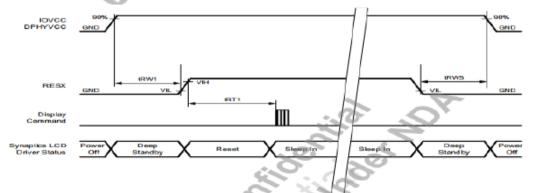
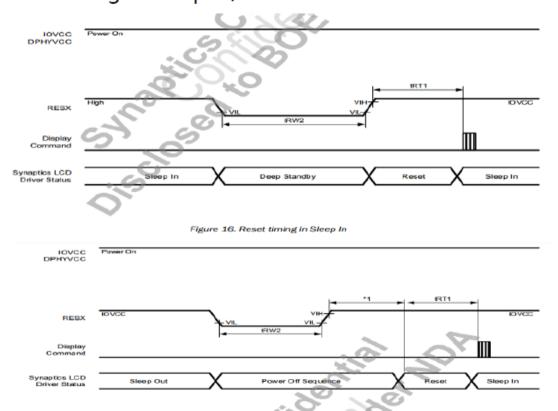




Figure 15. Reset timing characteristics at power supply on

BOE 2.1" 1600 General Spec Reset timing in sleep in/out





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Figure 17. Reset timing in Sleep Out