



PIN NO	SYMBOL
1	VSS
2	VDD
3	V0
4	VEE
5	A0
6	E1
7	E2
8	DB0
9	DB1
10	NC
11	NC
12	DB2
13	DB3
14	DB4
15	DB5
16	DB6
17	DB7
18	NC
19	NC
20	NC

NOTE:  
 1. LCD TYPE :STN/GRAY  
 2. VIEWING DIRECTION :6 O' CLOCK  
 3. DRIVE METHOD :DUTY1/32, BIAS 1/6  
 4. OPERATING VOLTAGE :7.5V  
 5. POLARIZER MODE :REFLECTIVE/POSITIV  
 6. OPERATING TEMP :-0°C - 50°C  
 7. STORAGE TEMP :-10°C - 60°C  
 8. CONNECT TYPE :COB

**FEATURE**

1. STN, Positive, Transflective, Display dot: Dark Blue Background: Gray
2. IC: Samsung KS0713TB-03
3. TAB TYPE ; 1/32 DUTY ; 6 O'clock
4. B/L : NA

Pin NO	Symbol	Pin NO	Symbol
1	DUMMY	25	MS
2	TEMPS	26	DUTY1
3	INTRS	27	DUTY0
4	HPM	28	DB7
5	DCDC5B	29	DB6
6	BSTS	30	DB5
7	V4	31	DB4
8	V3	32	DB3
9	V2	33	DB2
10	V1	34	DB1
11	V0	35	DB0
12	VR	36	RD
13	C2-	37	WR
14	C2+	38	RS
15	C1-	39	RES
16	C1+	40	CS2
17	C3-	41	CS1B
18	C3+	42	DISP
19	VOUT	43	CL
20	VDD	44	M
21	VSS	45	FRS
22	PS	46	DUMMY
23	MI		
24	CLS		

MECHANICAL DATA		
Item	Standard Value	Unit
Module Dimension	42.4(W) X 36.7(H) X 1.99(T)	mm
Viewing Area	40.4(W) X 13.0(H)	mm
Mounting hole	0.26(W) X 0.26(H)	mm
Dot Pitch	0.31(W) X 0.31(H)	mm

ABSOLUTE MAXIMUM RATING					
Item	Symbol	Standard Value			Unit
		min	typ	max	
Power Supply	VDD-VSS	2.4	3.0	3.6	V
LCD Voltage	VO-VSS	10	10.5	11	V

ELECTRONICAL CHARACTERISTICS						
Item	Symbol	Condition	Standard Value			Unit
			min	typ	max	
Supply Voltage	VDD	25°C	-1.0		5.0	V
Supply Voltage for LCD	VLCD	25°C	4.5		15.0	mA
Input Voltage	VIN	25°C	-0.3		Vdd+ 0.3v	V
Operating Temp	Top	25°C	-10		+60	°C
Storage Temp	Tst	25°C	-20		+70	°C