

n Mechanical Data

Item	Standard Value	Unit
Module Size	75.0(W) x 52.7(H) x 6.8(T)	mm
Viewing Area	60.0(W) x 32.5(H)	mm
Dot Pixels	128 x 64	dots
Dot Size	0.40 x 0.40	mm
Dot Pitch	0.43 x 0.43	mm

II Absolute Maximum Ratings

Item	Symbol	Standard Value			Unit
		Min.	Typ.	Max.	
Supply Voltage for Logic	$V_{DD-V_{SS}}$	0	--	7.0	V
Supply Voltage for LCD Drive	$V_{DD-V_{EE}}$	0	--	16.0	V
Input Voltage	V_I	V_{SS}	--	V_{DD}	V
Operation Temperature	Topr	0	--	50	°C
Storage Temperature	Tstg	-20	--	70	°C

n Electrical Characteristics

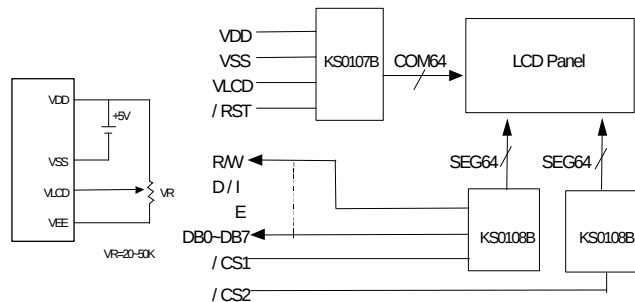
Item	Symbol	Condition	Standard Value			Unit
			Min.	Typ.	Max.	
LCD Supply Voltage	$V_{DD}-V_{SS}$	--	4.5	5.0	5.5	V
LCD Driver Circuit Power Supply Voltage	$V_{DD}-V_{EE}$	25°C	--	11.2	--	V
Input Voltage	V_{IH}	NOTE(1)	$0.7 \times V_{DD}$	--	V_{DD}	V
Input Voltage	V_{IL}	NOTE(1)	V_{SS}	--	$0.3 \times V_{DD}$	V
Supply Current	I_{DD}	$V_{DD} = 5.0V$	--	2.0	--	mA
	I_{IC}	$V_{IC} = -8V$	--	1.8	--	mA

Note (1) Pin, E,RS,R/W,DB0~DB7

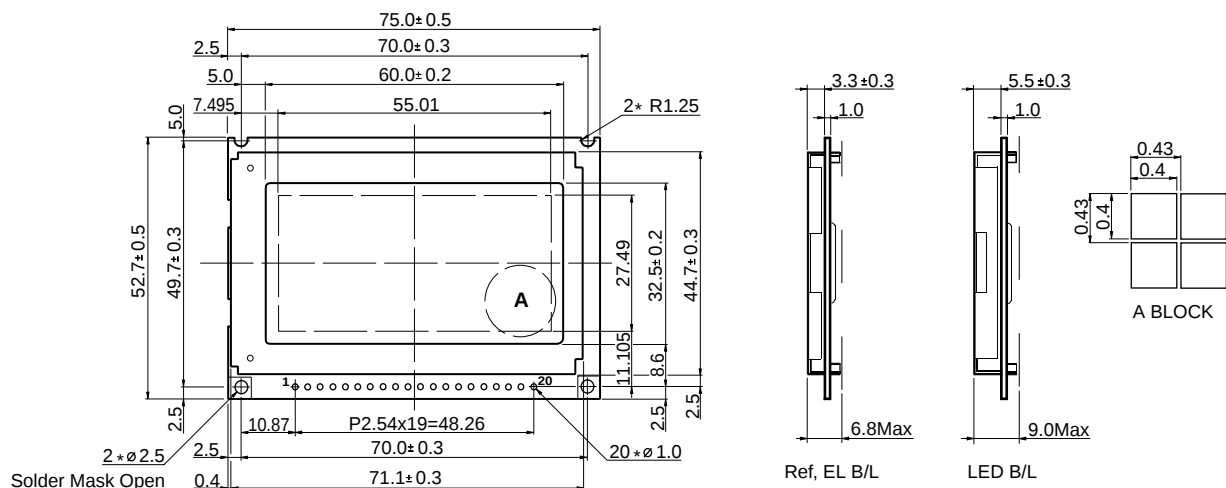
n Pin Assignment

No.	Symbol	Level	Function
1	V _{DD}	--	Power Supply for Logic (+5V)
2	V _{SS}	--	GND(0V)
3	V _{LC}	--	LCD Drive Voltage(-8V)
4~11	DB0~DB7	H/L	Data Bus Line
12	/CS1	H	Chip Selection For IC1(U2)
13	/CS2	H	Chip Selection For IC2(U3)
14	/RST	L	Reset
15	R/W	H/L	H: Data Read L: Data Write
16	D/I	H/L	H: Data Input L: Instruction Code Input
17	E	H,H-L	Enable Signal
18	FGND	--	Frame GND (0V)
19	LEDA	--	Power Supply for LED
20	LEDK	--	Power Supply for LED

n Block Diagram



External Dimensions



n Option

LCD Type								Backlight Type				Built-in Control LSI
S1	S2	W	N	R	F	M	H	EL	LED	CCFL	Touch Panel	
●	●	●	●	●	●	●	●	●	●			KS-0108

Remarks: S1: yellow-green STN LCD, S2: gray STN LCD, W: black & white LCD, N: negative type LCD, R: reflective type LCD, F: transfective type LCD, M: transmissive type LCD, H: extended temperature type LCD (-20°C ~ 70°C)

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