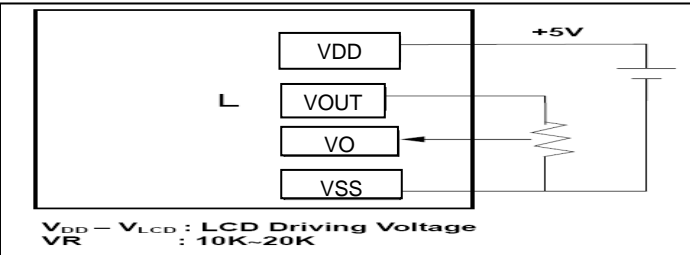
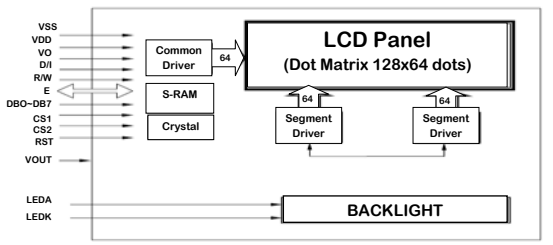


DOTS SIZE



Interface

Pin no	Symbol	Function
1	VSS	Power supply (GND)
2	VDD	Power supply(+)
3	VO	Contrast Adjustment
4	D/I	COMMAND/DATA selection
5	R/W	Read/Write (R/W) control
6	E	Enable signal
7	DB0	Date bus line
8	DB1	Date bus line
9	DB2	Date bus line
10	DB3	Date bus line
11	DB4	Date bus line
12	DB5	Date bus line
13	DB6	Date bus line
14	DB7	Date bus line
15	CS1	Chip Selection IC1
16	CS2	Chip Selection IC2
17	RES	Hardware reset input
18	VOUT	Negative Voltage Out
19	LEDA	LED B/L (+)
20	LEDK	LED B/L (-)

Feature

Controller	KS0108	Module	93 x 70
Duty	1/64 duty	Viewing Area	72 x 40
Bias	1/9 bias	Mounting hole	88 x 65
B/L	Y/G	Character Size	0.48 x 0.48

Absolute Maximum Rating

I tem	Symbol	Condition	Min	Max	Units
Supply for logic voltage	Vdd-Vss	25°C	-0.3	7	V
LCD driving supply voltage	Vdd-Vss	25°C	-0.3	13	V
Input voltage	Vin	25°C	-0.3	Vdd+0.3	V

Electrical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Units
Power supply voltage	Vdd-Vss	25°C	4.5	-	5.5	V
LCD operation voltage	Vop	25°C	-	9.1	-	V
LED Forward Voltage	VF	25°C	-	4.2	-	V
LED Forward Current	IF	25°C	-	330	-	mA