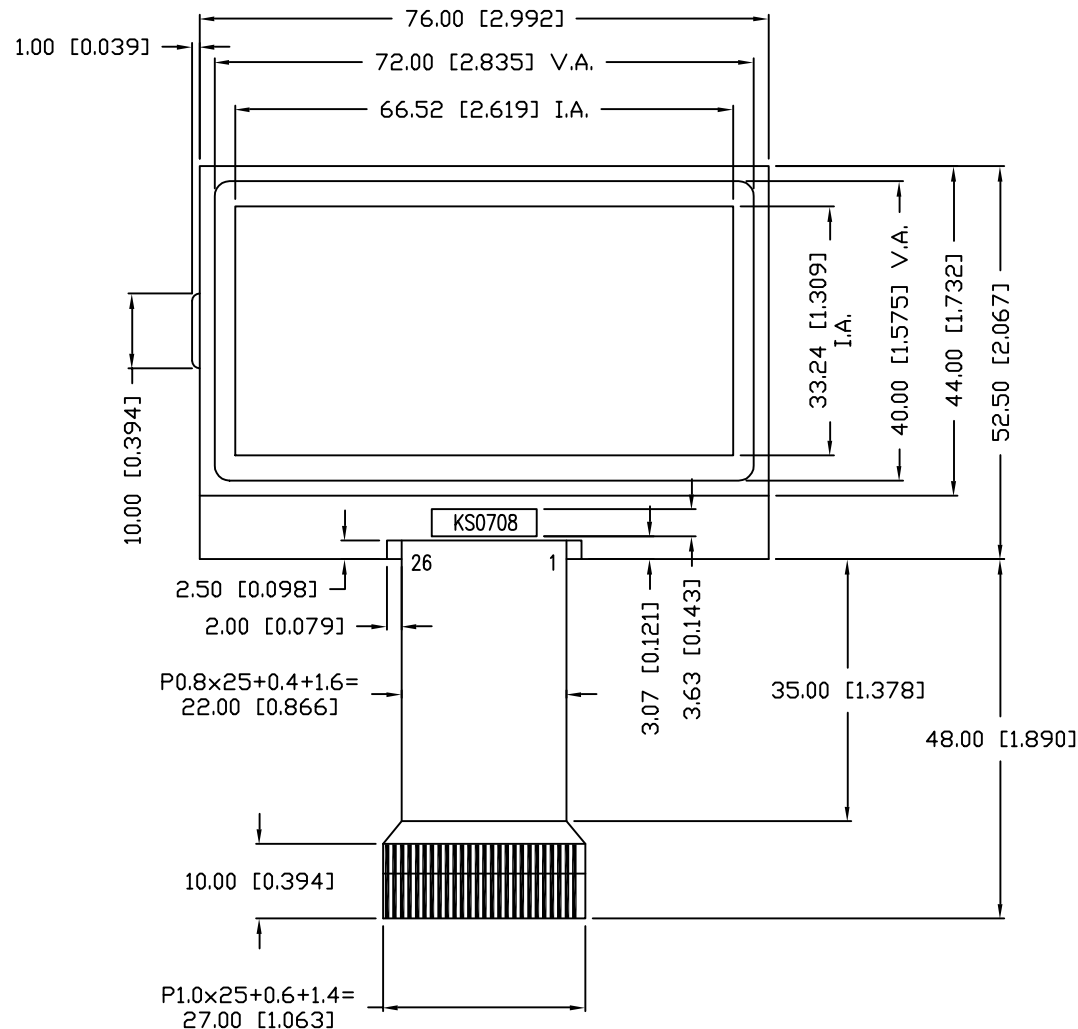
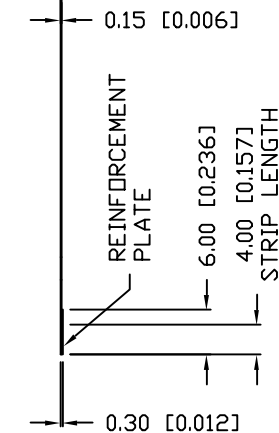
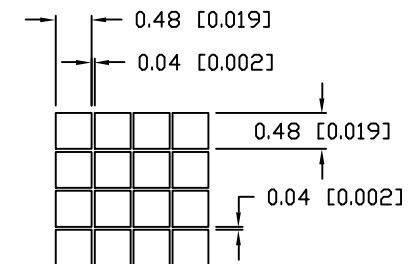


PIXEL DETAIL



UNCONTROLLED DOCUMENT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN=+DECIMAL PRECISION MAX.=+0.00 -DECIMAL PRECISION

REV.

PART NUMBER

LCM-S12864CGSF-Y

128 x 64 CHIP ON GLASS GRAPHIC MODULE,
STN YELLOW, TRANSFLECTIVE, 1/64 DUTY.

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RELIABILITY NOTE

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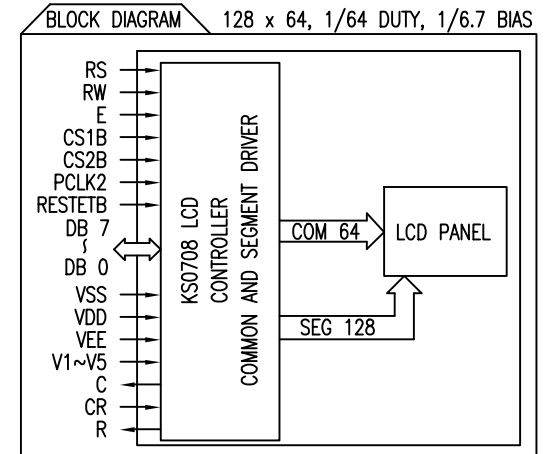
APPROVED BY:

DATE: 5-22-00

PAGE: 1 OF 2

SCALE: N/A

PIN CONFIGURATION			
PIN NO.	SYMBOL	I/O TYPE	FUNCTION
1	V _{ee}	SUPPLY	LCD CONTRAST VOLTAGE
2~6	V5~V1		LCD DRIVER SUPPLY VOLTAGES (1)
7	V _{DD}		POWER SUPPLY
8	V _{ss}	0V	GROUND
9	PCLK2	I	INTERNAL SHIFT CLOCK PHASE H: DATA SHIFT AT RISING EDGE OF CLK2 L: DATA SHIFT AT FALLING EDGE OF CLK2
10	CS2B	I	CHIP SELECT 2: DATA I/O IS ENABLED VIA E, RS, RW, DB0~7 WHEN CS2B IS LOW
11	C	0	RC OSCILLATOR
12	CR	I	
13	R	0	
14~21	DB0~DB7	I/O	DATA BUS-BIDIRECTIONAL
22	RS	I	REGISTER SELECT-> H: THE DISPLAY DATA IN DB7~DB0 REGISTER SELECT-> L: THE CONTROL DATA IN DB7~DB0
23	R/W	I	H: READ L: WRITE
24	E	I	ENABLE SIGNAL
25	CS1B	I	CHIP SELECT 1: DATA I/O IS ENABLED VIA E, RS, RW, DB0~7 WHEN CS1B IS LOW
26	RSTB	I	RESET: CHIP INITIALIZED WHEN LOW

NOTE 1: V_{DD} ≥ V1 > V2 > V3 > V4 > V5 ≥ V_{EE}

ELECTRICAL CHARACTERISTICS		V _{DD} =4.5V to 5.5V, T _A =25°C					
ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT
				MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC		V _{DD}	—	—	5.0	—	V
SUPPLY CURRENT		I _{DD}	V _{DD} =5V	—	2.0	—	mA
INPUT VOLTAGE	HIGH	V _{IH}	—	0.7V _{DD}	—	V _{DD}	V
	LOW	V _{IL}	—	0	—	0.3V _{DD}	V
OUTPUT VOLTAGE	HIGH	V _{OH}	—	2.4	—	—	V
	LOW	V _{OL}	—	0	—	0.4	V

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE	V _{DD}	T _a =25°C	4.5	5.5	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{EE}	-	V _{DD} - 19	V _{DD} + 0.3	V
INPUT VOLTAGE	V _I	T _a =25°C	V _{ss}	V _{DD}	V
OPERATING TEMPERATURE	T _{opr}	-	0	50	°C
STORAGE TEMPERATURE	T _{stg}	-	-20	70	°C

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REV.

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