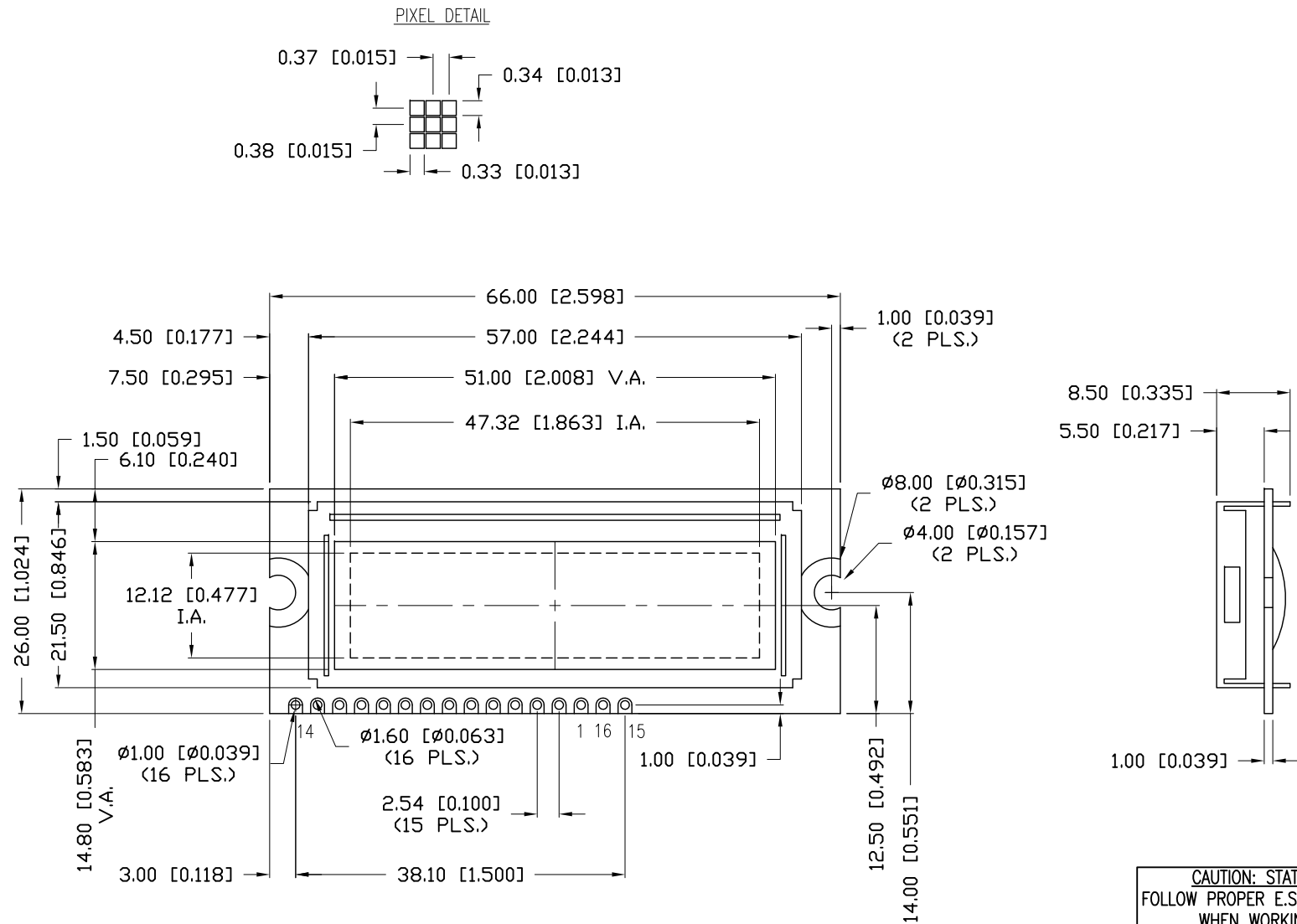


PART NUMBER	LCM-S12832GSF/A	REV.	A
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
03.01.13	E.C.N. #10BRDR. & REDRAWN.		A

A



CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

*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.= +DECIMAL PRECISION -0.00

UNCONTROLLED DOCUMENT

128 x 32 GRAPHIC LCD MODULE, STN, TRANSFLECTIVE, 1/32 DUTY, YELLOW/GREEN BACKLIGHT.

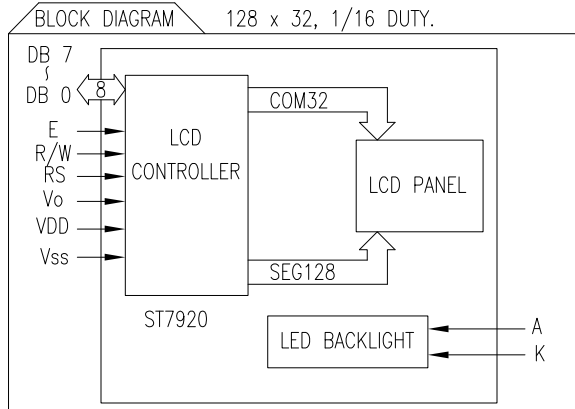
THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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PAGE:	1 OF 2	CHKD BY:	SS
SCALE:	NTS	APRVD BY:	SS
UNIT:	mm [INCH]		Ⓟ

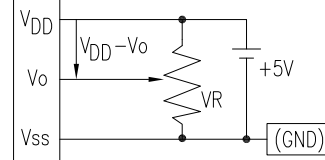
PART NUMBER	LCM-S12832GSF/A	REV.	A
DATE	E.C.N. NUMBER AND REVISION COMMENTS		
03.01.13	E.C.N. #10BRDR. & REDRAWN.		
		REV.	A

A



ENGLISH: 16 CHARACTERS X 2 LINES
CHINESE: 8 CHARACTERS X 1 LINE.

$V_{DD}-V_o$: LCD DRIVING VOLTAGE
VR: 10K Ω - 20K Ω



PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	Vss	-	POWER SUPPLY	GND (0V)
2	VDD	-		5V
3	Vo	-		FOR LCD DRIVE
4	RS	H/L	REGISTER SELECT	
5	R/W	H/L	H: DATA READ (MODULE-->MPU) L: DATA WRITE (MODULE<--MPU)	
6	E	H/L	ENABLE SIGNAL (NO PULL-UP RESISTOR)	
7~14	DB0~DB7	H/L	DATA BUS	
15	A	-	ANODE	LED BACKLIGHT
16	K	-	CATHODE	LED BACKLIGHT

ELECTRICAL CHARACTERISTICS		$V_{DD}=4.5V$ to $5.0V$, $T_A=25^\circ C$					
ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT
				MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC		$V_{DD}-V_{ss}$	-	4.5	5.0	5.5	V
SUPPLY CURRENT FOR LOGIC		I_{DD}	$V_{DD}=5V$	-	0.6	1.1	mA
INPUT VOLTAGE	HIGH	V_{IH}	-	2.2V	-	V_{DD}	V
	LOW	V_{IL}	-	0	-	0.6	V
*LED BACKLIGHT	VOLTAGE	V_f	$I_f=40mA$	-	4.2	4.6	V
	CURRENT	I_f	-	-	90	-	mA
	POWER CONSUMPTION	PD	-	-	360	-	mW
	LUMINOUS	L	$I_f=40mA$	70	130	-	cd/m ²
	COLOR	YG	-	-	570	-	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{ss}$	$T_a=25^\circ C$	-0.3	8.0	V
SUPPLY VOLTAGE FOR LCD DRIVE	$V_{DD}-V_o$	$T_a=25^\circ C$	-0.3	12	V
INPUT VOLTAGE	V_I	$T_a=25^\circ C$	-0.3	V_{DD}	V
OPERATING TEMPERATURE	T_{opr}	LCM-S	0	50	$^\circ C$
STORAGE TEMPERATURE	T_{stg}	LCM-S	-20	70	$^\circ C$

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UNCONTROLLED DOCUMENT

128 x 32 GRAPHIC LCD MODULE, STN, TRANFLECTIVE, 1/32 DUTY, YELLOW/GREEN BACKLIGHT.

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