

# LCD Drivers and Controllers

## SUPERTEX - EL BACKLIGHTING DRIVER INTEGRATED CIRCUITS AND DEMO BOARDS

### HV809 Features:

Input voltage up to 200V DC, 400V peak-to-peak output voltage, output load up to 350mA (100 in2 for 3.5nF/in2 lamp), adjustable output lamp frequency, adjustable On/Off pulsing frequency

### HV823 Features:

180V peak-to-peak output voltage, large output load capability, adjustable output lamp frequency adjustable converter frequency, enable/disable function low current draw under no load condition.

### HV826 Features:

1.8V to 3.5V operating supply voltage, adjustable output frequency, adjustable switch frequency, output voltage regulation, enable/disable function

### HV833 Features:

1.8V to 6.5V operating supply voltage, separately adjustable lamp and converter frequency, <100nA shutdown current, output voltage regulation, enable/disable function, output timing for high efficiency

### HV830 Features:

2.0V to 9.5V operating supply voltage, 200V peak-to-peak typical output voltage, large output load capability, permits the use of high-resistance elastomeric lamp connectors, adjustable output lamp frequency, adjustable converter frequency, enable/disable function, low current draw under no load condition, very low standby current

### HV850 Features:

Designed to drive EL lamps of up to 2.0in2, with capacitive values up to 4.5nF, no external components needed when using an external EL clock frequency, low noise and enable function

### HV857/HV857L Features:

Audible noise reduction, lamp aging compensation, wide input voltage range, 190V peak-to-peak output voltage, single cell lithium ion compatible, 150nA shutdown current, separately adjustable lamp and converter frequencies, output voltage regulation, split supply regulation

MOUSER STOCK NO.		Package	Input Voltage Range		Nominal Output Volt. Vcs (V)	High Volt. Supply Curr. Iin (Typ) (mA)	Max. Switch Resistance Rds(ON) Max (Ω)	Output Reg.	Driver	Maximum Lamp Size Per Driver (in <sup>2</sup> )	Price Each		
Mfr.	Mfr. Part No.		Low (V)	High (V)							1	100	500
◆	689—HV826MG-G	MSOP-8	1.8	3.5	±80	35	70hm	Yes	Single	4	1.43	1.19	1.10
◆	689—HV826LG-G	SO-8	1.8	3.5	±80	35	60hm	Yes	Single	4	1.37	1.14	1.05
◆	689—HV857MG-G	MSOP-8	1.8	5.0	±95	20	60hm	Yes	Single	5	1.20	1.00	.92
◆	689—HV857LMG-G	MSOP-8	1.8	5.0	±95	25	6	Yes	Single	5	1.20	1.00	.92
◆	689—HV833MG-G	MSOP-8	1.8	6.5	±90	56	40hm	Yes	Single	12	1.69	1.41	1.30
◆	689—HV823LG-G	SOIC-8 (N)	2.0	9.5	±90	25	6	Yes	Single	23	2.00	1.66	1.53
◆	689—HV830LG-G	SO-8	2.0	9.5	±100	35	40hm	Yes	Single	25	2.15	1.79	1.65
◆	689—HV860K7-G	QFN-12	2.5	4.5	±110	16	6	Yes	Single	5	1.37	1.14	1.05
◆	689—HV850MG-G	MSOP-8	3.0	4.2	±140	- - -	N/A	Yes	Single	2	1.56	1.30	1.20
◆	689—HV809LG-G	SO-8	50	200	±50 - ±200	9-70	N/A	N/A	Single	100	2.34	1.94	1.80
◆	689—HV809K2-G	TO-220-7	50	200	±50 - ±200	9-70	N/A	N/A	Single	100	3.71	3.08	2.85

## MICROCHIP - 8-BIT LCD PIC MICROCONTROLLERS W/ ON-BOARD LCD DRIVER AND CAPACITIVE TOUCH

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Microchip Part No.	Flash	SRAM	I/O	LCD Pixels	Price Each		
						1	25	100
579-PIC18F66J90-I/PT	PIC18F66J90-I/PT	64K	3923B	51	132	4.46	3.41	3.09
579-PIC18F67J90-I/PT	PIC18F67J90-I/PT	128K	3923B	51	132	4.94	3.78	3.42
579-PIC18F86J90-I/PT	PIC18F86J90-I/PT	64K	3923B	67	192	4.91	3.75	3.39
579-PIC18F87J90-I/PT	PIC18F87J90-I/PT	128K	3923B	67	192	5.39	4.12	3.73
<b>Development Tools</b>								
579-DM163030	DM163030	PICDEM LCD 2				125.00	--	--
579-DM183026	DM183026	mTouch Capacitive Touch Evaluation Kit				84.95	--	--
579-MA180025	MA180025	Plug-in-Module w/cap-touch				25.00	--	--

## MICROCHIP - MICRO-CONTROLLERS W/ INTEGRATED LCD DRIVER MODULES

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Microchip Part No.	Supply Voltage/Range	Supply Current	Package	Resolution	Operating Temperature Range	Mounting Type	Price Each			
								1	25	100	
<b>LCD Drivers</b>											
579-AY0438/P	AY0438/P	+ 8.5 V	60 mA	PDIP-40	-	0°C to + 70°C	4.20	3.50	3.06	2.78	
579-AY0438-I/L	AY0438-I/L	+ 8.5 V	60 mA	PLCC-44	-	- 40°C to + 85°C	6.02	5.02	4.55	4.13	
579-AY0438-I/P	AY0438-I/P	+ 8.5 V	60 mA	PDIP-40	-	- 40°C to + 85°C	4.39	3.66	3.21	2.92	

## LCD DEVELOPMENT KITS & ACCESSORIES

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Mfr. Part No.	Manufacturer	Description	Price Each	
				1	25
832-EDPI	EDP-I	JEM Innovation Inc.	LCD Module Eval & Development Platform LCD Test Board	59.00	54.63
841-MC9S08LC60LK	MC9S08LC60LK	Freescale	8-bit MCUs 8 Bit, 60K Flash-Low Vol, with LCD Driver	6.41	5.29
595-430F423IPM	MSP430F423IPM	Texas Instruments	MCUs - MSP430 Series 8KB Flash 256B RAM ADC/128 sLCD	5.40	4.32
595-TPS65160PWP	TPS65160PWP	Texas Instruments	LCD/OLED Display Bias Solutions Bias Power Supply	4.15	3.32
595-TPS65160PWPR	TPS65160PWPR	Texas Instruments	LCD/OLED Display Bias Solutions Bias Power Supply	3.73	2.98

## TEXAS INSTRUMENTS - TOUCH SCREEN CONTROLLER

For use with selected Touch Screen Modules without controller on board.

\* With Audio Codec

For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	TI Part No.	Package	Touch Panel	Resolutions	Sample Rate	Supply Voltage	Inputs	Price Each		
								1	25	100
595-ADS7843E	ADS7843E	SSOP-16	4-Wire	8 or 12	125kHz	2.7-5V	2	3.95	3.16	2.45
595-ADS7845E	ADS7845E	SSOP-16	5-Wire	8 or 12	125kHz	5V	1	9.30	7.44	6.27
595-ADS7846E	ADS7846E	SSOP-16	4-Wire	12	125kHz	2.2-5.25V	2	4.80	3.85	2.99
595-ADS7846IRGVT	ADS7846IRGVT	QFN-16	4-Wire	12	125kHz	2.2-5.25V	2	4.81	3.85	2.99
595-TSC2000IPW	TSC2000IPW	TSSOP-20	4-Wire	8, 10 or 12	-	2.7-3.6V	4	5.84	4.68	3.64
595-TSC2003IPW	TSC2003IPW	TSSOP-16	4-Wire	12	50 ksp/s	2.5V-5.25V	4	5.60	4.50	3.50
595-TSC2003IPWR	TSC2003IPWR	TSSOP-16	4-Wire	12	50 ksp/s	2.5V-5.25V	2	4.57	4.05	3.15
595-TSC2005IYZLT	TSC2005IYZLT	WCSP 28	4-Wire	10 or 12	50kHz	1.6-3.6V	1	5.48	4.41	3.43
595-TSC2046EIPW	TSC2046EIPW	TSSOP-16	4-Wire	12	125kHz	2.2 -5.25V	2	4.34	3.46	2.69
595-TSC2046EIRGVT	TSC2046EIRGVT	QFN-16	4-Wire	12	125kHz	2.2 -5.25V	2	4.10	3.63	2.82
595-TSC2046IPWR	TSC2046IPWR	TSSOP-16	4-Wire	12	125kHz	2.2 -5.25V	2	1.80	1.60	1.20
595-TSC2046IRGVR	TSC2046IRGVR	QFN-16	4-Wire	12	125kHz	2.2 -5.25V	2	2.10	1.68	1.26
595-TSC2046IZQCR	TSC2046IZQCR	BGA MicroSTAR JR-48	4-Wire	12	125kHz	2.2 -5.25V	2	1.98	1.76	1.32
* 595-TSC2100IDA	TSC2100IDA	TSSOP 32	4-Wire	12	125kHz	05V - 6V	2	8.70	6.96	5.86
* 595-TSC2100IRHB	TSC2100IRHB	QFN 32	4-Wire	12	125kHz	05V - 6V	2	8.70	6.96	5.86
* 595-TSC2101IRGZ	TSC2101IRGZ	QFN 48	4-Wire	12	125kHz	05V - 6V	2	9.40	7.52	6.33
* 595-TSC2102IDA	TSC2102IDA	TSSOP-32	4-Wire	12	125kHz	05V - 6V	2	8.30	6.64	5.59
* 595-TSC2111IRGZT	TSC2111IRGZT	48QFN	4-Wire	12	125kHz	1.1 - 3.6	2	7.47	7.04	6.24
* 595-TSC2200IRHB	TSC2200IRHB	QFN-32	4-Wire	12	125kHz	2.7V-3.6V	2	5.96	4.77	3.71
* 595-TSC2300IPAG	TSC2300IPAG	TQFP-64	4-Wire	12	125kHz	2.5V	2	8.17	7.33	6.50
* 595-TSC2300IPAGG4	TSC2300IPAGG4	TQFP (PAG) I 64	4-Wire	12	125kHz	2.7-3.6V	2	8.17	7.33	6.50
* 595-TSC2301IGQZR	TSC2301IGQZR	BGA MicroSTAR JR-120	4-Wire	12	125kHz	2.7-3.6V	2	7.74	6.97	6.18
* 595-TSC2301IPAG	TSC2301IPAG	TQFP-64	4-Wire	12	125kHz	2.7-3.6V	2	8.57	7.72	6.84
* 595-TSC2301IPAGG4	TSC2301IPAGG4	TQFP-64	4-Wire	12	125kHz	2.7-3.6V	2	8.57	7.72	6.84
* 595-TSC2301IZQZ	TSC2301IZQZ	BGA MicroSTAR JR-120	4-Wire	12	125kHz	2.7-3.6V	2	8.57	7.72	6.84
* 595-TSC2302IRGZ	TSC2302IRGZ	QFN-48	4-Wire	12	125kHz	2.7-3.6V	-	8.42	7.56	6.71