

■ INTRODUCTION

RW1062 is a LCD driver & controller LSI which is fabricated by low power CMOS technology. It can display 2 lines x 24 (5 x 8 dot format) characters or 4 lines x 20 (5 x 8 dot format) characters. It is ideal for multi-language application. Standard code RW1062-0A-001 can support up to 256 fonts. Customized codes are available.

■ FUNCTIONS

- Character type dot matrix LCD driver & controller
- Internal drivers: 34 common and 100 segment for 4 line display, 1/33 duty (NW=1).
18 common and 120 segment for 2 line display, 1/17 duty (NW=0).
- Easy interface with 4-bit or 8-bit MPU or 4 lines / 3 lines / IIC serial peripheral interface (SPI)
- 5 x 8 dot matrix font
- Bi-directional shift function
- Double height display function
- Common scan direction selectable
- Voltage converter for LCD drive voltage: 8 V max (2 times / 3 times)
- Various instruction functions
- Automatic power on reset
- CGRAM/CGROM display selectable

■ FEATURES

- Internal Memory
- Character Generator ROM (CGROM): 10,240 bits (256 characters x 5 x 8 dot)
- Character Generator RAM (CGRAM): 64 x 5 bits (8 characters x 5 x 8 dot)
- Icon RAM (SEGRAM): 16 x 5 bits (80 icons max.)
- Display Data RAM (DDRAM): 80 x 8 bits (80 characters max.)
- Low power operation
- Power supply voltage range: 2.4 ~ 5.5 V (VDD)
- LCD Drive voltage range: 3.0 ~ 7V (V0 – VSS)
- CMOS process
- Programmable duty cycle: 1/17, 1/33 (refer to Table 1.)
- Internal oscillation circuit with built-in resistor
- Low power consumption
- Bare chip available

RW1062 Font table (0A-001)

b7~4 b3~0	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
0000	CG RAM [00]			0	a	P	\	F			-	9	3	o	P	
0001	CG RAM [01]		!	1	A	a	a			.	7	7	4	a	9	
0010	CG RAM [02]		"	2	B	b	b			"	4	9	x	P	B	
0011	CG RAM [03]		#	3	C	c	c			]	0	T	e	s	o	
0100	CG RAM [04]		\$	4	D	d	d			[	i	k	t	P	a	
0101	CG RAM [05]		%	5	E	e	e			*	*	*	1	o	o	
0110	CG RAM [06]		&	6	F	f	f			9	o	c	a	P	E	
0111	CG RAM [07]		'	7	G	g	g			7	7	x	7	9	n	
1000	CG RAM [00]		(	8	H	h	h			4	o	x	U	r	x	
1001	CG RAM [01]		)	9	I	i	i			o	t	U	U	Y	Y	
1010	CG RAM [02]		*	*	J	j	j			z	o	n	v	j	f	
1011	CG RAM [03]		+	+	K	k	k			*	U	E	O	*	A	
1100	CG RAM [04]		,	<	L	l	l			P	E	O	O	e	A	
1101	CG RAM [05]		-	=	N	n	n			z	x	\	U	t	+	
1110	CG RAM [06]		.	>	N	n	n			9	e	O	^	n		
1111	CG RAM [07]		/	?	O	o	e			w	U	7	^	o		