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Specification	
Part Number:	MCRS232A
Version:	
Date:	



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1. Revision History

DATE	VERSION	REVISED PAGE NO.	Note
2011/10/27	1		First issue



2.Mechanical Data

Item	Standard Value	Unit
Module Dimension	58x27.0	mm
Mounting hole	3.0	mm

3.Electrical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			Min.	Typ.	Max.	
Input Voltage	VDD	VDD=5v	4.5	5.0	5.5	V
Supply Current	VIO	VDD=5V	—	7.2	—	mA

4.Feature

1. for character module control only (unless 4004).

Pin NO.	Symbol	Function
1	Vcc	Dc+5V
2	Rx	Serial input port.
3	Tx	Serial output port
4	GND	Power Ground

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5. Command Code

Status	1Byte	2Byte	3Byte	4Byte	Description
Clear Display	E7H	43H	01H	7EH	DDRAM fills "20H" AC SET TO "00H"
Return Home	E7H	43H	02H	7EH	SET AC TO "00H" DDRAM not changed
Display ON/OFF	E7H	43H	08H	7EH	Display OFF but not change DDRAM content
Display ON/OFF	E7H	43H	0CH	7EH	Display ON CURSOR DISPLAY OFF CURSOR HIGHLIGHT OFF
Display ON/OFF	E7H	43H	0DH	7EH	Display ON CURSOR DISPLAY OFF CURSOR HIGHLIGHT ON
Display ON/OFF	E7H	43H	0EH	7EH	Display ON CURSOR DISPLAY ON CURSOR HIGHLIGHT OFF
Display ON/OFF	E7H	43H	0FH	7EH	Display ON CURSOR DISPLAY ON CURSOR HIGHLIGHT ON
Cursor or Display Shift	E7H	43H	10H	7EH	CURSOR SHIFT TO THE LEFT ONLY
Cursor or Display Shift	E7H	43H	14H	7EH	CURSOR SHIFT TO THE RIGHT ONLY
Cursor or Display Shift	E7H	43H	18H	7EH	Display SHIFT TO THE LEFT AND CURSOR FOLLOWS
Cursor or Display Shift	E7H	43H	1CH	7EH	Display SHIFT TO THE RIGHT AND CURSOR FOLLOWS
Set DDRAM address	E7H	43H	80H	7EH	SET DDRAM ADDRESS=80H (1ine 1)
Set DDRAM address	E7H	43H	C0H	7EH	SET DDRAM ADDRESS=C0H (1ine 2)
SEND DATA	E7H	44H	XXH	7EH	DATA = XXH

"C"=43H : Command

"D"=44H : DATA

"9600,N,8,1" For T ÔRS232ÔE(9600bps)

6. Contour Drawing

