VOLTAGE REGULATORS ELECTRICAL CHARACTERISTICS TABLE

■ 3- Terminal Series Regulator

TYPE \ V_{OUT} [V]		2.6	3.0	5.0	6.0	6.2	7.0	8.0	9.0	10	12	15	18	20	24	V_{OUT} Deviation*1 [%]	I_{OUT} MAX [A]	Package
NJM78L Series*2	Positive	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5	0.1	TO-92 SOT-89
NJM78M Series				X	X			X	X		X	X	X	X	X	4	0.5	TO-220F TO-252
NJM78 Series				X	X			X	X		X	X	X		X	4	1.5	TO-220F TO-252
NJM79L Series*2	Negative		X	X	X			X	X		X	X	X		X	5	0.1	TO-92 SOT-89
NJM79M Series				X	X			X	X		X	X	X		X	4	0.5	TO-220F TO-252
NJM79 Series				X	X			X	X		X	X	X		X	4	1.5	TO-220F

*1 The value may vary in output voltage. Refer to V_{OUT} parameter in each product data sheet.
*2 V_{OUT} may vary according to packages. See each product data sheet for further information.

■ Low Dropout Voltage Regulators(C-MOS)

SPEC \ TYPE	NJU7200	NJU7201	NJU7202	NJU7221	NJU7222	NJU7223	NJU7231	NJU7241	NJU7211
Package	TO-92 SOT-89	TO-92 SOT-89	TO-92 SOT-89	TO-92 SOT-89	TO-92 SOT-89	TO-220F TO-252	MTP-5	MTP-5	TO-92 SOT-89
I_{OUT} MAX*1	40mA	40mA	100mA	100mA	100mA	500mA	40mA	60mA	40mA
IDD (typ.)*1	0.9µA	19µA	20µA	19µA	20µA	30µA	10µA	20µA	19µA
ΔV_{I-O} (typ.) *1	0.1V @Io=30mA	0.6V @Io=40mA	0.6V @Io=100mA	0.6V @Io=40mA	0.6V @Io=100mA	0.6V @Io=500mA	0.3V @Io=40mA	0.3V @Io=60mA	0.6V @Io=40mA
V_{OUT} Deviation	5%	5%	5%	2%	2%	2%	2%	2%	5%
Output Voltage*2	Positive								Negative
1.0	X								
1.2	X	X		X			X		X
1.5	X	X		X			X		X
1.8						X	X	X	
2.0				X					X
2.5	X	X		X		X	X	X	X
2.6							X		
2.7	X	X					X	X	
2.8							X	X	
2.85								X	
2.9							X	X	
3.0	X	X	X	X	X	X	X	X	X
3.1								X	
3.2	X	X		X				X	X
3.3	X		X		X	X	X	X	
3.4								X	
3.5	X	X		X					X
3.6								X	
3.7								X	
4.0	X	X		X				X	X
4.5		X		X				X	X
4.6								X	
5.0	X	X	X	X	X	X	X	X	X
5.2		X					X		
5.5		X		X					X
5.9								X	
6.0								X	
7.0									

*1 The value may vary in output voltage. Refer to V_{OUT} parameter in each product data sheet.
*2 Some may still be under development. See each product data sheet for more information.
*3 U.D. = Under Development

VOLTAGE REGULATORS ELECTRICAL CHARACTERISTICS TABLE

■ Low Dropout Voltage Regulators(Bipolar)

TYPE / SPEC	NJM2370	NJM2860	NJM2861 NJM2862	NJM2870	NJM2871/A NJM2872/A	NJM2880	NJM2391	NJM2930
Package	SOT-89 VSP-8	MTP-5	MTP-5	MTP-5	MTP-5	SOT-89	TO-252	TO-220F TO-92
I_{OUT} MAX	150mA	100mA	100mA	150mA	150mA	300mA	1A	150mA 100mA
ΔV_{I-O} (typ.)	0.1V @Io=30mA	0.1V @Io=60mA	0.1V @Io=60mA	0.1V @Io=60mA	0.1V @Io=60mA	0.1V @Io=100mA	1.1V @Io=1A	0.25V*1 @Io=100mA
V_{OUT} Deviation	3%	1%	1%	2%	2% A TYPE: 1%	1%	1%	10%
Output Voltage*2								
1.5				X				
1.8				X				
1.9				X				
2.0	X			X				
2.1	X	X	X	X	X	X		
2.2	X							
2.3	X			X	X			
2.4	X			X				
2.5	X	X	X	X	X	X	X	
2.6	X	X	X	X	X	X	X	
2.7	X	X	X	X	X	X		
2.8	X	X	X	X	X	X		
2.85		X	X	X	X	X	X	
2.9	X			X	X			
3.0	X	X	X	X	X	X	X	
3.1	X	X		X	X			
3.2	X			X	X			
3.3	X	X	X	X	X	X	X	
3.4				X	X			
3.5	X	X		X	X		X	
3.6	X			X				
3.7	X							
3.8		X	X	X	X	X		
4.0		X		X	X			
4.2								
4.5				X	X			
4.6		X		X				
4.7	X	X		X				
4.8				X				
5.0	X	X	X	X	X	X	X	X
6.0	X							
8.0	X							X
8.5								X
9.0	X							
10	X							
12	X							
13	X							
13.5	X							
15	X							
15.5	X							

*1 The value may vary according to package outline. See the data sheet for further information.
*2 Some may still be under development. See each product data sheet for more information.
*3 U.D.= Under Development

■ Switching Regulator IC's function table

	Application				Maximum Ratings		Features			Over Current Protection			Package
	Step-Down	Step-Up	Inverting	Fly-Back	Operating Voltage [V]	Quiesent Current [mA]	SW. Tx / Drive Current	Max. Freq. [kHz]	Ref. tol. [%]	Peak Current	Output Current	Timer Latch	
NJM2340	x				3.6~ 32	1.5	15mA	500	±1.5		x		DMP8, TVSP8
NJM2352	x	x			2.6~ 24	0.4	100mA	100	±5				DIP8, DMP8
NJM2355	x				7.5~ 50	5.9	±200mA	28	±4		x		DIP18
NJM2360	x	x	x		2.5~ 40	2.4	1.5A	100	±5.6	x			DIP8, DMP8
NJM2360A	x	x	x		2.5~ 40	2.4	1.5A	100	±2	x			DIP8, DMP8
NJM2362				x	9~ 20	14	200mA	50	±4	x			DIP14
NJM2367	x				7.5~ 40	40	5.5A	72	±2	x			TO220-5
NJM2368		x		x	3.6~ 32	3.5	50mA	350	±2			x	DIP8, DMP8, EMP8, SSOP8
NJM2369		x		x	3.6~ 32	5.2	-	350	±2			x	DIP8, DMP8, EMP8, SSOP8
NJM2374A	x	x	x		2.5~ 40	2.8	1.5A	100	±2	x			DIP8, DMP8, EMP8,
NJM2375		x			15~ 30	9	500mA	PFM	±2	x			DIP8, DMP8, SIP8, SSOP14
NJM2375A		x			12~ 30	9	500mA	PFM	±2	x			DIP8, DMP8, SIP8, SSOP14
NJM2377		x		x	2.7~ 18	5	±50	500	±2			x	DIP8, DMP8, SSOP8,VSP8
NJM2378		x		x	3.6~ 32	3.5	±50	slave	±2			x	DIP8, DMP8, EMP8, SSOP8
NJM2379		x		x	3.6~ 32	5.2	-	slave	±2			x	DIP8, DMP8, EMP8, SSOP8
NJM2381		x		x	3.6~ 32	3.5	±50	350	±2		x		DIP14, DMP14, SSOP10
NJM2382		x		x	3.6~ 32	3.5	±50	350	±2		x		DIP14, DMP14, SSOP10
NJM2383	x				3.6~ 32	5.5	200mA	350	±2		x		DIP14, DMP14, SSOP10
NJM2384	x				3.6~ 32	5.5	200mA	500	±2		x		DIP14, DMP14, SSOP10
NJM3524				x	8~ 40	8	100mA	60	±8		x		DIP16, DMP16
NJU7261		x			1~ 10	10u	250mA	PFM	±3				SOT89-5
NJU7262		x			1~ 10	10u	250mA	PFM	±3				DMP8, SSOP8, VSP8

Function table is reference data. See the data sheet for further information.

■ Shunt Regulator IC's function table

	Reference Voltage [V]	Ref. tol. [%]	Cathode Voltage [V]	Cathode Current [mA]	Minimum Cathode Current [uA]	Package					
						TO-92	SOT-89	MTP5	DIP8	DMP8	EMP8
NJM431	2.495	±2	36	100	400	x	x		x	x	
NJM2380	2.465	±2	18	100	400	x	x	x	x	x	x
NJM2380A	2.465	±1	18	100	400	x	x	x	x	x	x
NJM2373	1.25	±2	13	30	80		x	x			
NJM2373A	1.25	±1	13	30	80		x	x			
NJM2376	1.25	±1	13	30	80		x	x			
NJM2820	1.25	±0.7	13	30	80			x			
NJM2821	1.25	±0.7	13	30	80			x			

■ Voltage Converter IC's function table

	Output Function	Input Voltage [V]	Output Resistance [ohm]	Frequency [kHz]	Quiecent Current [mA]	Package
NJU7664	Inverting	2.7~5.2	-	4,000	1.25	VSP8
NJU7665A	Inverting	1.5~5.5	1,000	7.5	0.1	MTP5
NJU7665B	Inverting	1.5~5.5	100	75	1	MTP5
NJU7665C	Inverting	1.5~5.5	100	150	2	MTP5
NJU7670	Duble Inverthing Tripple Inverthing	1.5~10	14	2.5	0.12	DIP14, DMP14, SSOP14

Function table is reference data. See the data sheet for further information.