

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

www.fairchildsemi.com

MC78MXX/LM78MXX

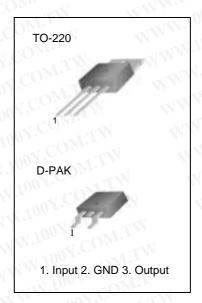
3-terminal 0.5A positive voltage regulator

Features

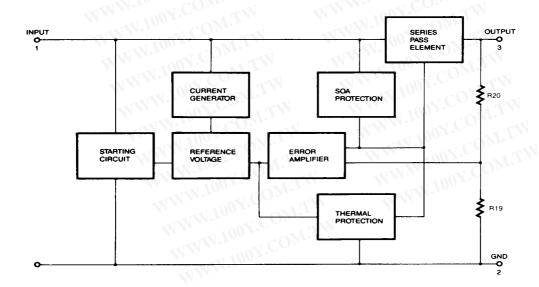
- Output Current up to 0.5A
- Output Voltages of 5, 6, 8, 10, 12, 15, 18, 20, 24V
- Thermal Overload Protection
- · Short Circuit Protection
- Output Transistor Safe Operating area (SOA)Protection

Description

The MC78MXX/LM78MXX series of three-terminal positive regulators are available in the TO-220/D-PAK package with several fixed output voltages making it useful in a wide range of applications.



Internal Block Digram



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Input Voltage (for V _O = 5V to 18V) (for V _O = 24V)	VI VI	35 40	V V
Thermal Resistance Junction-Cases	R _θ JC	5	°C/W
Thermal Resistance Junction-Air (TO-220 Package)	RθJA	65 KN	°C/W
Operating Temperature Range MC78MXX/LM78MXX	Topr	0~ + 125	°C
Storage Temperature Range	TSTG	-65~ + 150	°C

Electrical Characteristics (MC78M05/LM78M05)

(Refer to the test circuits, $0 \le T_J \le +125$ °C, $I_O=350$ mA, $V_I=10$ V, unless otherwise specified, $C_I=0.33\mu F$, $C_O=0.1\mu F$)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
MAN TOWN		TJ=+25°C	4.8	5	5.2	Mr.
Output Voltage	Vo	I _O = 5 to 350mA V _I = 7 to 20V	4.75	5	5.25	WA.
Line Degulation	11/0	I _O = 200mA	-11	W -	100	m)/
Line Regulation	ΔVο	TJ =+25°C V _I = 8 to 25V	- <	MA	50	mV
Land Datablation of COM.	11/0	I _O = 5mA to 0.5A, T _J =+25°C	-	-V	100	(CO)
Load Regulation	ΔVο	IO = 5mA to 200mA, TJ =+25 °C	-	- TVV	50	mV
Quiescent Current	IQ	T _J =+25°C	-	4.0	6	mA
MM. 1001.Co	WIN	IO = 5mA to 350mA	-	3/1	0.5	00 1.
Quiescent Current Change	ΔlQ	I _O = 200mA V _I = 8 to 25V		-11	0.8	mA
Output Voltage Drift	ΔV/ΔΤ	I _O = 5mA T _J = 0 to +125°C	TY.	-0.5	WWW	mV/°C
Output Noise Voltage	VN	f = 10Hz to 100KHz	T.T.W	40	MA	μV
Ripple Rejection	RR	f = 120Hz, IO = 300mA VI = 8 to 18V	62	- N	MA	dB
Dropout Voltage	VD	TJ =+25°C, IO = 500mA	OM^{T}	2	- 1	V
Short Circuit Current	Isc	TJ=+25°C, VI= 35V	M.	300	-	mA
Peak Current	IPK	TJ =+25°C	- 1	700	-	mA

^{*}Load and line regulation are specified at constant junction temperature. Change in V₀ due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Electrical Characteristics (MC78M06)

(Refer to the test circuits, $0 \le TJ \le +125$ °C, IO=350mA, VI=11V, unless otherwise specified, $CI=0.33\mu F$, $CO=0.1\mu F$)

Parameter	Symbol	COMP	onditions	Min.	Тур.	Max.	Unit
COMIT	M.100.	TJ=+25°C	I. WWW.	5.75	6	6.25	
Output Voltage	Vo	I _O = 5 to 350 V _I = 8 to 21V	mA WWW	5.7	6	6.3	V
Line Deculation	11/0	I _O = 200mA	V _I = 8 to 25V	TOOY	Co	100	mV
Line Regulation	ΔVο	TJ =+25°C	V _I = 9 to 25V	M . 5	$I.C_{O_{P}}$	50	mv
Lood Degulation	11/0	IO = 5mA to 0	0.5A, TJ =+25°C	Mira	V.EO	120	ma\/
Load Regulation	ΔVO	$I_O = 5mA \text{ to } 2$	200mA, TJ =+25°C	MA:10	3 ≥ 7 C(60	mV
Quiescent Current	IQ	TJ=+25°C	M.IM	1.W.L	4.0	6	mA
1001.00	41.44	$I_O = 5mA \text{ to } 3$	350mA	N VI	1001.	0.5	LA
Quiescent Current Change	ΔlQ	IO = 200mA VI = 9 to 25V	COM.TW	MANA	1001	0.8	mA
Output Voltage Drift	ΔV/ΔΤ	IO = 5mA T _J = 0 to +12	25°C	WW	- 0.5	N.CO	mV/°C
Output Noise Voltage	VN	f = 10Hz to 1	00KHz	-111	45	07-	μV
Ripple Rejection	RR	f = 120Hz, IO VI = 9 to 19V		59	WW.	007.C	dB
Dropout Voltage	VD	T _J =+25°C, lo	O = 500mA	-	2	700,	V
Short Circuit Current	Isc	TJ= +25°C, \	/i= 35V	-	300	N.190	mA
Peak Current	IPK	T _J =+25°C	TIONY CONTENT	_	700	700	mA

^{*}Load and line regulation are specified at constant, junction temperature. Change in V₀ due to heating effects must be taken into account separately. Pulse testing with low duty is used.

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Electrical Characteristics (MC78M08)

(Refer to the test circuits, $0 \le TJ \le +125$ °C, IO=350mA, VI=14V, unless otherwise specified, $CI=0.33\mu F$, $CO=0.1\mu F$)

Parameter	Symbol	Co	nditions	Min.	Тур.	Max.	Unit
CONCIL	M.100	TJ=+25 °C	MAIN	7.7	8	8.3	
Output Voltage	Vo	I _O = 5 to 350mA V _I = 10.5 to 23V		7.6	8	8.4	V
Line Regulation	41/0	I _O = 200mA	V _I = 10.5 to 25V	100-Y.	, O - N /	100	mV
Line Regulation	ΔVο	TJ =+25°C	VI = 11 to 25V	Y Oo	$Co_{n_{s}}$	50	IIIV
Lood Degulation	41/0	IO = 5mA to 0.5	A, TJ =+25°C	1.10	I.COD	160	ma\/
Load Regulation	ΔVο	Io = 5mA to 200	OmA, T _J =+25°C	W.100	<1 C.C	80	mV
Quiescent Current	lQ	TJ=+25°C	U.L.	W-10	4.0	6	mA
THE TOTAL TOTAL TWO	MM	IO = 5mA to 350	DmA	- x <u>1</u> 1	001.	0.5	W
Quiescent Current Change	ΔIQ	IO = 200mA V _I = 10.5 to 25V	OM.TW V	WW.	100X	0.8	mA
Output Voltage Drift	RR	IO = 5mA T _J = 0 to +125°	C W.TW	WWW	-0.5	Y.CO	mV/°C
Output Noise Voltage	VN	f = 10Hz to 100	KHz	MM	52	01.0	μV
Ripple Rejection	RR	f = 120Hz, I _O = V _I = 9 to 19V	300mA	56	NN.	00¥.C	dB
Dropout Voltage	VD	T _J =+25°C, l _O =	= 500mA	- 77	2	100,3	V
Short Circuit Current	Isc	TJ =+25°C, VI=	35V	- 1	300	1.1007	mA
Peak Current	IPK	T _J =+25°C	100 Y.CO. LAN	-	700	1 100	mA

^{*}Load and line regulation are specified at constant, junction temperature. Change in V₀ due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Electrical Characteristics (MC78M12)

(Refer to the test circuits, $0 \le T_J \le 125^{\circ}$ C, $I_{O} = 350$ mA, $V_{I} = 19$ V, unless otherwise specified, $C_{I} = 0.33\mu$ F, $C_{O} = 0.1\mu$ F)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
COM.	M.100	TJ=+25°C	11.5	12	12.5	
Output Voltage	Vo	I _O = 5 to 350mA V _I = 14.5 to 27V	11.5	12	12.6	V
Line Regulation	4)/0	I _O = 200mA	100Y		100	mV
Line Regulation	ΔVο	TJ =+25°C VI = 16 to 30V	-00	COM	50	IIIV
Lood Degulation	41/0	IO = 5mA to 0.5A, TJ =+25°C	11.100	V.CO	240	mV
Load Regulation	ΔVο	I _O = 5mA to 200mA, T _J =+25°C	11-10	~1-CC	120	IIIV
Quiescent Current	IQ	TJ=+25°C	W.W.	4.1	6	mA
TION CONTRACTOR	W	IO = 5mA to 350mA	TAN .	007	0.5	N.
Quiescent Current Change	ΔlQ	IO = 200mA VI = 14.5 to 30V		100X	0.8	mA
Output Voltage Drift	ΔV/ΔΤ	IO = 5mA T _J = 0 to +125°C	WEW	- 0.5	Y.CO	mV/°C
Output Noise Voltage	VN VN	f = 10Hz to 100KHz	AN	75	01.0	μV
Ripple Rejection	RR	f = 120Hz, I _O = 300mA V _I = 15 to 25V	55	NVI.	00Y.C	dB
Dropout Voltage	VD	T _J =+25°C, I _O = 500mA	- 1	2	100 3	CVA
Short Circuit Current	Isc	TJ= +25°C, VI= 35V	-	300	1.100	mA
Peak Current	IPK	T _J = +25°C	-	700	× 100	mA

^{*}Load and line regulation are specified at constant, junction temperature. Change in V₀ due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Electrical Characteristics (MC78M15)

(Refer to the test circuits, $0 \le TJ \le +125^{\circ}C$, IO=350mA, VI=23V, unless otherwise specified, $CI=0.33\mu F$, $CO=0.1\mu F$)

Parameter	Symbol	Co	nditions	Min.	Тур.	Max.	Unit
COMIT	M.100.	TJ=+25°C	WW.	14.4	15	15.6	
Output Voltage	Vo	I _O = 5 to 350 V _I = 17.5 to 3		14.25	15	15.75	V
Line Deculation	11/0	I _O = 200mA	V _I = 17.5 to 30V	100	A.Co.	100	m) /
Line Regulation	ΔVο	TJ =+25°C	VI = 20 to 30V	M.	N.CO	50	mV
Land De COM.	WW.	IO = 5mA to 0	0.5A, TJ =+25°C	MA . 10	N.C	300	N
Load Regulation	ΔVο	$I_O = 5mA \text{ to } 2$	200mA, T _J =+25°C	WW.	00 =	150	mV
Quiescent Current	IQ	TJ=+25°C	WIII A	-	4.1	6	mA
AM. TOOY.CO.	MAN	$I_O = 5mA \text{ to } 3$	350mA	MA	1 100 X	0.5	LA
Quiescent Current Change	ΔlQ	IO = 200mA V _I = 17.5 to 3	30V	MM	W.100	0.8	mA
Output Voltage Drift	ΔV/ΔΤ	IO = 5mA T _J = 0 to +12	25°C	-W	-1	001-CO	mV/°C
Output Noise Voltage	N VN	f = 10Hz to 1	00KHz	- 1	100	1007.0	μV
Ripple Rejection	RR	f = 120Hz, IO V _I = 18.5 to 2		54	AN A	1.100Y.	dB
Dropout Voltage	VD	T _J =+25°C, I ₀	O = 500mA	-	2	W.100.	V
Short Circuit Current	Isc	TJ= +25°C, \	/i= 35V	-	300	100°	mA
Peak Current	IPK	T _J = + 25°C	100Y.CO	N -	700	110	mA

^{*}Load and line regulation are specified at constant, junction temperature. Change in V₀ due to heating effects must be taken into account separately. Pulse testing with low duty is used.

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Electrical Characteristics (MC78M18)

(Refer to the test circuits, $0 \le TJ \le +125^{\circ}C$, IO=350mA, VI=26V, unless otherwise specified, $CI=0.33\mu F$, $CO=0.1\mu F$)

Parameter	Symbol	COM. CO	onditions	Min.	Тур.	Max.	Unit
COMIT	ZNW.100	TJ=+25°C	TINN 100	17.3	18	18.7	
Output Voltage	Vo	I _O = 5 to 350m/ V _I = 20.5 to 33V		17.1	18	18.9	V
Line Regulation	4)/0	Io = 200mA	V _I = 21 to 33V	1007.0	-11	100	m\/
Line Regulation	ΔVο	TJ =+25°C	VI = 24 to 33V	Toux.	$C\bar{O}_{2a}$	50	- mV
Load Degulation	11/0	IO = 5mA to 0.5	5A, TJ =+25°C	1.10-	$^{\circ}C_{O_{\overline{D}}}$	360	ms\/
Load Regulation	ΔVΟ	Io = 5mA to 20	0mA, T _J =+25°C	1700	«1 C'O	180	mV
Quiescent Current	IQ	TJ =+25°C	W.T.	TW. 100	4.2	6	mΑ
TI TOOY.CO.	W	IO = 5mA to 35	0mA	W 10	0.1.	0.5	LAN.
Quiescent Current Change	ΔlQ	IO = 200mA VI = 21 to 33V	OM.TW W	UMAN.	00X.	0.8	mA
Output Voltage Drift	ΔV/ΔΤ	IO =5mATJ =0	to 125°C	WW	-1.1	J GO	mV/°C
Output Noise Voltage	VN	f=10Hz to 100K	Hz		100	7.70	μV
Ripple Rejection	RR	f=120Hz, IO=30	00mA , V _I =22 to 32V	53	W-10	25.	dB
Dropout Voltage	VD	T _J =+25°C, l _O =	500mA	17	2	007.	V
Short Circuit Current	Isc	TJ =+25°C, VI=	35V	-W	300	1007	mA
Peak Current	lpk	TJ =+25°C	CON. COM	- 17	700	4.507	mA

^{*}Load and line regulation are specified at constant, junction temperature. Change in V₀ due to heating effects must be taken into account separately. Pulse testing with low duty is used.

Electrical Characteristics (MC78M20)

(Refer to the test circuits, $0 \le TJ \le +125^{\circ}C$, IO=350mA, VI=29V, unless otherwise specified, $CI=0.33\mu F$, $CO=0.1\mu F$)

Parameter	Symbol	COM	onditions	Min.	Тур.	Max.	Unit
COMIT	M.100	TJ= +25°C	NWW.	19.2	20	20.8	
Output Voltage	Vo	I _O = 5 to 350 V _I = 23 to 35 ¹	T	19	20	21	V
Line Regulation	11/0	I _O = 200mA	V _I = 23 to 35V	100	T.Co.	100	mV
Line Regulation	ΔVO	TJ =+25°C	V _I = 24 to 35V	1111-	N.CO	50	mv
Lood Regulation	41/0	IO = 5mA to	0.5A, TJ =+25°C	MATTE	N-CC	400	√ mV
Load Regulation	ΔVO	$I_0 = 5mA to$	200mA, T _J =+25°C	TWW.	57 C	200	mv
Quiescent Current	IQ	TJ=+25°C	OMITA	- TW	4.2	6	mA
TION CONTENT	MA	$I_O = 5mA$ to	350mA	MA	700x.	0.5	LA
Quiescent Current Change	ΔlQ	IO = 200mA VI = 23 to 35	VOMIN	MM	N.100)	0.8	mA
Output Voltage Drift	ΔV/ΔΤ	IO = 5mA T _J = 0 to +12	25°C	-WV	-1.1	OY.CO	mV/°C
Output Noise Voltage	√V VN	f = 10Hz to 1	00KHz	- W	110	001.0	μV
Ripple Rejection	RR	f = 120Hz, IC V _I = 24 to 34		53	MAN	100X.	dB
Dropout Voltage	VD	T _J =+25°C, I	O = 500mA	-	2	1.100 x	V
Short Circuit Current	Isc	T _J = +25°C,	V _I = 35V	_	300	W.100	mA
Peak Current	IPK	T _J = +25°C	1100Y.CO	N -	700	-x110	mA

^{*}Load and line regulation are specified at constant, junction temperature. Change in V₀ due to heating effects must be taken into account separately. Pulse testing with low duty is used.

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Electrical Characteristics (MC78M24)

(Refer to the test circuits, $0 \le TJ \le +125$ °C, IO=350mA, VI=33V, unless otherwise specified, $CI=0.33\mu F$, $CO=0.1\mu F$)

Symbol	COM	onditions	Min.	Тур.	Max.	Unit
M.100	TJ=+25°C	WWW	23	24	25	
Vo	2 () ())))	-T V	22.8	24	25.2	V
41/0	Io = 200mA	V _I = 27 to 38V	-10	Y.Co.	100	mV
ΔνΟ	TJ =+25°C	VI = 28 to 38V	MAG	WY-CC	50	mv
41/0	IO = 5mA to	0.5A, TJ =+25°C	MAN'T	V.C	480	N m)/
ΔVΟ	$I_O = 5mA$ to	200mA, T _J =+25°C	W.	100	240	mV
lQ	TJ=+25°C	OMITY	N TO	4.2	6	mA
MA	$I_O = 5mA$ to	350mA	MA	M 190 A	0.5	IN
ΔlQ	- 1110	BYOMTW	WW.	N.100	0.8	mA
ΔV/ΔΤ	IO = 5mA T _J = 0 to +12	25°C	- 1/	- 1.2	007 ¹ .CC	mV/°C
√ VN	f = 10Hz to 1	00KHz	- 1	170	100-11-6	μV
RR			50	NAN	1.100Y	dB
V _D	T _J =+25°C,	O = 500mA	_	2	M.700.3	VM
Isc	TJ= +25 °C,	V _I = 35V	· -	300	W-100	mA
IPK	T _J =+25°C	TI 100 Y. COM	W -	700	-3110	mA
	VO ΔVO ΔVO IQ ΔIQ ΔIQ ΔV/ΔT VN RR VD ISC	$\begin{array}{c} \text{TJ=+25°C} \\ \text{VO} & \text{IO} = 5 \text{ to } 350 \\ \text{V}_{\text{I}} = 27 \text{ to } 38 \\ \text{AVO} & \text{IO} = 200 \text{mA} \\ \text{TJ} = +25°C \\ \text{AVO} & \text{IO} = 5 \text{mA to} \\ \text{IO} = 200 \text{mA} \\ \text{VI} = 27 \text{ to } 38 \\ \text{AV/AT} & \text{IO} = 5 \text{mA} \\ \text{TJ} = 0 \text{ to } +12 \\ \text{VN} & \text{f} = 10 \text{Hz to } 10 \\ \text{RR} & \text{f} = 120 \text{Hz, IO} \\ \text{VI} = 28 \text{ to } 38 \\ \text{VD} & \text{TJ} = +25°C, IO \\ \text{ISC} & \text{TJ} = +25°C, IO \\ \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$V_{O} = \frac{\text{T_J=+25}^{\circ}\text{C}}{\text{IO} = 5 \text{ to } 350 \text{mA}} $ $V_{I} = 27 \text{ to } 38 \text{V} $ 22.8 $\Delta V_{O} = \frac{\text{IO} = 200 \text{mA}}{\text{T_J =+25}^{\circ}\text{C}} = \frac{\text{VI} = 27 \text{ to } 38 \text{V}}{\text{VI} = 28 \text{ to } 38 \text{V}} = \frac{\text{VI} = 28 \text{ to } 38 \text{V}}{\text{VI} = 28 \text{ to } 38 \text{V}} = \frac{\text{VI} = 28 \text{ to } 38 \text{V}}{\text{VI} = 28 \text{ to } 38 \text{V}} = \frac{\text{VI} = 28 \text{ to } 38 \text{V}}{\text{IO} = 5 \text{mA}} = \frac{\text{IO} = 5 \text{mA}}{\text{IO} = 5 \text{mA}} = \frac{\text{IO} = 5 \text{mA}}{\text{IO} = 200 \text{mA}} = \frac{\text{IO} = 5 \text{mA}}{\text{VI} = 27 \text{ to } 38 \text{V}} = \frac{\text{IO} = 5 \text{mA}}{\text{T_J} = 0 \text{ to } +125^{\circ}\text{C}} = \frac{\text{IO} = 5 \text{mA}}{\text{T_J} = 0 \text{ to } +125^{\circ}\text{C}} = \frac{\text{IO} = 5 \text{mA}}{\text{VI} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 300 \text{mA}}{\text{VI} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 200 \text{mA}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 500 \text{mA}}{\text{IO} = 28 \text{ to } 38 \text{V}} = \frac{\text{IO} = 200 \text{mA}}{\text{IO} = 200 \text{mA}}} = \frac{\text{IO} = 200 \text{mA}}{\text{IO} = 200 \text{mA}}} = \frac{\text{IO} = 200 \text{mA}}{\text{IO} = 200 \text{mA}} = \frac{\text{IO} = 200 \text{mA}}{\text{IO} = 200 \text{mA}} = \frac{\text{IO} = 200 \text{mA}}{\text{IO} = 200 \text{mA}}} = \frac{\text{IO} = 200 \text{mA}}{\text{IO} = 200 \text{mA}}} = \frac{\text{IO} = 200 \text{mA}}{\text{IO} = 200 \text{mA}} = \frac{\text{IO} = 200 \text{mA}}{\text{IO} = 200 \text{mA}}} = \frac{\text{IO} = 200 \text{mA}}{\text{IO}$	TJ=+25°C 23 24 VO IO = 5 to 350mA VI = 27 to 38V 22.8 24 ΔVO IO = 200mA VI = 27 to 38V - ΔVO IO = 5mA to 0.5A, TJ = +25°C - IQ = 5mA to 200mA, TJ = +25°C - - IQ = 5mA to 350mA - - ΔV/ΔT IO = 5mA - - - ΔV/ΔT IO = 5mA - </td <td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

^{*}Load and line regulation are specified at constant, junction temperature. Change in V₀ due to heating effects must be taken into account separately. Pulse testing with low duty is used.

W.100Y.COM.TW **Typical Applications**

V.100Y.COM.TW

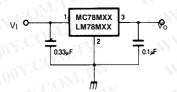


Figure 1. Fixed Output Regulator

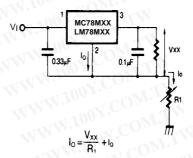
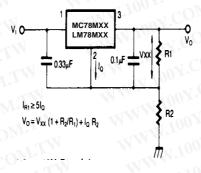


Figure 2. Constant Current Regulator

- 1. To specify an output voltage, substitute voltage value for "XX"
- 2. Although no output capacitor is needed for stability, it does improve transient response.
- 3. Required if regulator is located an appreciable distance from power Supply filter

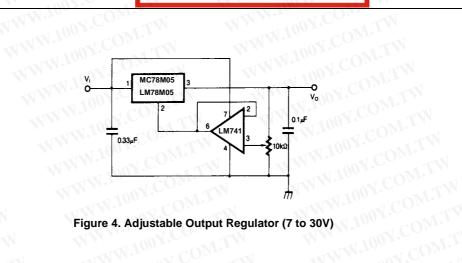


WW.100Y.COM.TW Figure 3. Circuit for Increasing Output Voltage WWW.100Y.COM.TW

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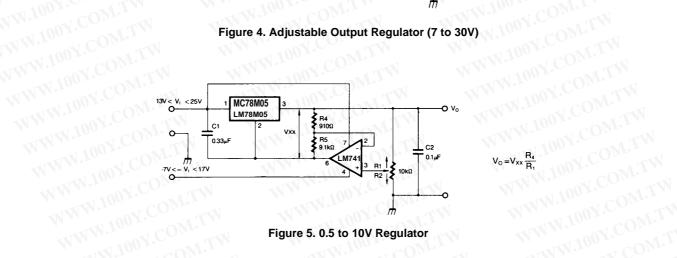


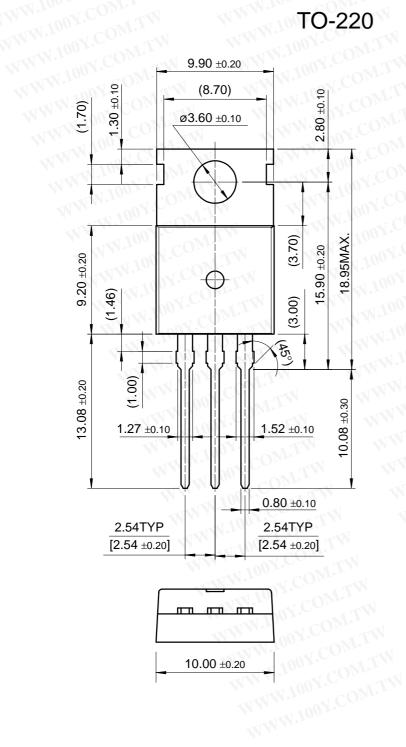
Figure 5. 0.5 to 10V Regulator WWW.100Y.COM

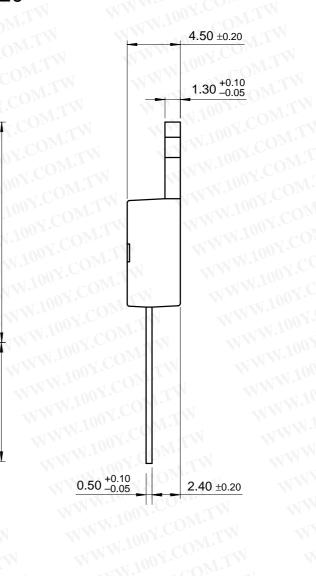
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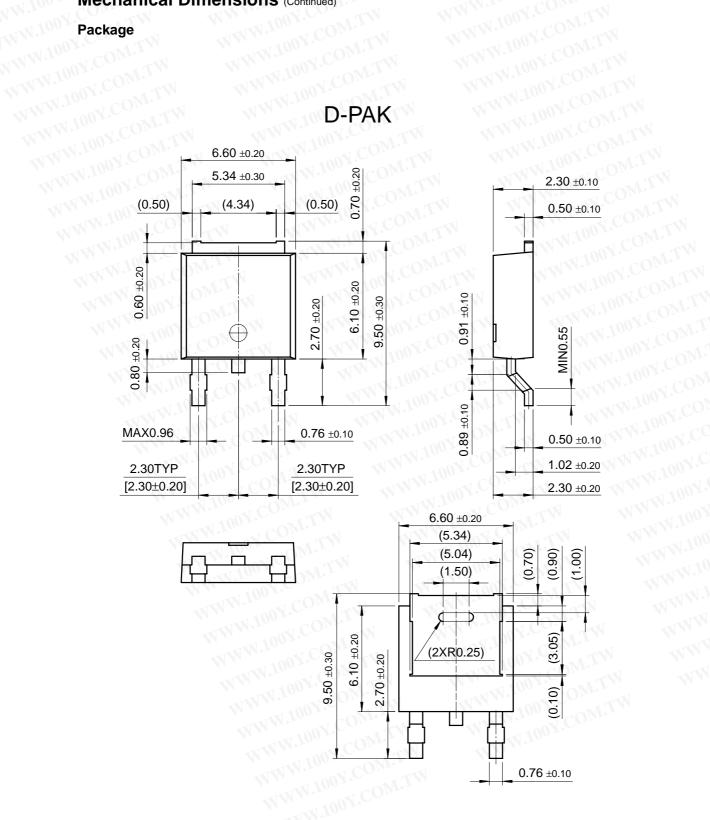
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LM78M05CT	TO-220	0 ~ + 125°C

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Product Number MC78M05CT	Package TO-220	Operating Temperatur
MC78M06CT	- 10-220	
MC78M08CT	W	
MC78M12CT	N VI	
MC78M15CT	VI C	
MC78M18CT		0 ~ + 125°C
MC78M20CT	- XX	
MC78M24CT		
MC78M05CDT	D-PAK	
MC78M08CDT	TIN.	
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