

TO-220



TO-252 (DPAK)



Pin Definition:

1. Input
2. Ground (tab)
3. Output

General Description

The TS78M00 Series positive voltage regulators are identical to the popular TS7800 Series devices, except that they are specified for only half the output current. Like the TS7800 devices, the TS78M00 Series 3-Terminal regulators are intended for local, on-card voltage regulation.

Internal current limiting, thermal shutdown circuitry and safe-area compensation for the internal pass transistor combine to make these devices remarkably rugged under most operating conditions. Maximum output current with adequate heatsink is 500mA

This series is offered in 3-pin TO-220 & TO-252 package.

Features

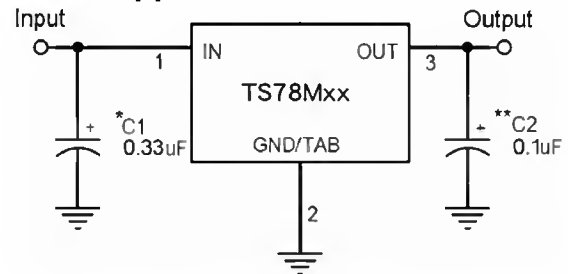
- Output Voltage Range 5 to 24V
- Output current up to 500mA
- No external components required
- Internal thermal overload protection
- Internal short-circuit current limiting
- Output transistor safe-area compensation
- Output voltage offered in 4% tolerance

Ordering Information

Part No.	Package	Packing
TS78MxxCZ C0	TO-220	50pcs / Tube
TS78MxxCP RO	TO-252	2.5Kpcs / 13" Reel

Note: Where **xx** denote voltage option

Standard Application Circuit



A common ground is required between the input and the output voltages. The input voltage must remain typically 2.0V above the output voltage even during the low point on the Input ripple voltage.

XX = these two digits of the type number indicate voltage.

* = Cin is required if regulator is located an appreciable distance from power supply filter.

** = Co is not needed for stability; however, it does improve transient response.

Absolute Maximum Rating (Ta = 25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Input Voltage	V _{IN} *	35	V
Input Voltage	V _{IN} **	40	V
Power Dissipation	P _D	Internal Limited	W
Operating Junction Temperature	T _J	0~+125	°C
Storage Temperature Range	T _{STG}	-65~+150	°C

Note: * TS78M05 to TS78M18

** TS78M24

*** Follow the derating curve

TS78M05 Electrical Characteristics

($V_{in}=10V$, $I_{out}=350mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$, $C_{in}=0.33\mu F$, $C_{out}=0.1\mu F$; unless otherwise specified.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit	
Output voltage	Vout	$T_j=25^{\circ}C$	4.80	5	5.20	V	
		$7.5V \leq V_{in} \leq 20V$, $5mA \leq I_{out} \leq 350mA$	4.75	5	5.25		
Line Regulation	REGline	$T_j=25^{\circ}C$	$7.5V \leq V_{in} \leq 25V$	--	3	100	mV
			$8V \leq V_{in} \leq 12V$	--	1	50	
Load Regulation	REGload	$T_j=25^{\circ}C$	$5mA \leq I_{out} \leq 500mA$	--	15	100	
			$5mA \leq I_{out} \leq 200mA$	--	5	50	
Quiescent Current	Iq	$I_{out}=0$, $T_j=25^{\circ}C$	--	3	6	mA	
Quiescent Current Change	ΔIq	$7.5V \leq V_{in} \leq 25V$	--	--	0.8		
		$5mA \leq I_{out} \leq 350mA$	--	--	0.5		
Output Noise Voltage	Vn	$10Hz \leq f \leq 100KHz$, $T_j=25^{\circ}C$	--	40	--	μV	
Ripple Rejection Ratio	RR	$f=120Hz$, $8V \leq V_{in} \leq 18V$	62	78	--	dB	
Voltage Drop	Vdrop	$I_{out}=500mA$, $T_j=25^{\circ}C$	--	2	--	V	
Output Resistance	Rout	$f=1KHz$	--	17	--	$m\Omega$	
Output Short Circuit Current	Ios	$T_j=25^{\circ}C$	--	50	--	mA	
Peak Output Current	I _{o peak}	$T_j=25^{\circ}C$	--	0.7	--	A	
Temperature Coefficient of Output Voltage	$\Delta V_{out} / \Delta T_j$	$I_{out}=5mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$	--	-0.2	--	$mV / ^{\circ}C$	

TS78M06 Electrical Characteristics

($V_{in}=11V$, $I_{out}=350mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$, $C_{in}=0.33\mu F$, $C_{out}=0.1\mu F$; unless otherwise specified.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit	
Output Voltage	Vout	$T_j=25^{\circ}C$	5.75	6	6.25	V	
		$8.5V \leq V_{in} \leq 21V$, $5mA \leq I_{out} \leq 350mA$	5.7	6	6.3		
Line Regulation	REGline	$T_j=25^{\circ}C$	$8.5V \leq V_{in} \leq 25V$	--	5	120	mV
			$9V \leq V_{in} \leq 13V$	--	1.5	60	
Load Regulation	REGload	$T_j=25^{\circ}C$	$5mA \leq I_{out} \leq 500mA$	--	14	120	
			$5mA \leq I_{out} \leq 200mA$	--	4	60	
Quiescent Current	Iq	$I_{out}=0$, $T_j=25^{\circ}C$	--	3	6	mA	
Quiescent Current Change	ΔIq	$8.5V \leq V_{in} \leq 25V$	--	--	0.8		
		$5mA \leq I_{out} \leq 350mA$	--	--	0.5		
Output Noise Voltage	Vn	$10Hz \leq f \leq 100KHz$, $T_j=25^{\circ}C$	--	45	--	μV	
Ripple Rejection Ratio	RR	$F=120Hz$, $9V \leq V_{in} \leq 19V$	59	80	--	dB	
Voltage Drop	Vdrop	$I_{out}=500mA$, $T_j=25^{\circ}C$	--	2	--	V	
Output Resistance	Rout	$F=1KHz$	--	19	--	$m\Omega$	
Output Short Circuit Current	Ios	$T_j=25^{\circ}C$	--	50	--	mA	
Peak Output Current	I _{o peak}	$T_j=25^{\circ}C$	--	0.7	--	A	
Temperature Coefficient of Output Voltage	$\Delta V_{out} / \Delta T_j$	$I_{out}=5mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$	--	-0.2	--	$mV / ^{\circ}C$	

- Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible, and thermal effects must be taken into account separately.
- This specification applies only for DC power dissipation permitted by absolute maximum ratings.

TS78M08 Electrical Characteristics

$V_{in}=14V$, $I_{out}=350mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$, $C_{in}=0.33\mu F$, $C_{out}=0.1\mu F$; unless otherwise specified.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit	
Output voltage	V_{out}	$T_j=25^{\circ}C$	7.69	8	8.32	V	
		$10.5V \leq V_{in} \leq 23V$, $5mA \leq I_{out} \leq 350mA$	7.61	8	8.40		
Line Regulation	REGline	$T_j=25^{\circ}C$	$10.5V \leq V_{in} \leq 25V$	--	6	160	mV
			$11V \leq V_{in} \leq 17V$	--	2	80	
Load Regulation	REGload	$T_j=25^{\circ}C$	$5mA \leq I_{out} \leq 500mA$	--	12	160	
			$5mA \leq I_{out} \leq 200mA$	--	4	80	
Quiescent Current	I_q	$I_{out}=0$, $T_j=25^{\circ}C$	--	3	6	mA	
Quiescent Current Change	ΔI_q	$10.5V \leq V_{in} \leq 25V$	--	--	0.8		
		$5mA \leq I_{out} \leq 350mA$	--	--	0.5		
Output Noise Voltage	V_n	$10Hz \leq f \leq 100KHz$, $T_j=25^{\circ}C$	--	52	--	μV	
Ripple Rejection Ratio	RR	$f=120Hz$, $11V \leq V_{in} \leq 21V$	56	80	--	dB	
Voltage Drop	V_{drop}	$I_{out}=500mA$, $T_j=25^{\circ}C$	--	2	--	V	
Output Resistance	R_{out}	$f=1KHz$	--	16	--	$m\Omega$	
Output Short Circuit Current	I_{os}	$T_j=25^{\circ}C$	--	50	--	mA	
Peak Output Current	$I_{o peak}$	$T_j=25^{\circ}C$	--	0.7	--	A	
Temperature Coefficient of Output Voltage	$\Delta V_{out} / \Delta T_j$	$I_{out}=5mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$	--	-0.2	--	$mV / ^{\circ}C$	

TS78M09 Electrical Characteristics

$V_{in}=15V$, $I_{out}=350mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$, $C_{in}=0.33\mu F$, $C_{out}=0.1\mu F$; unless otherwise specified.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit	
Output Voltage	V_{out}	$T_j=25^{\circ}C$	8.65	9	9.36	V	
		$11.5V \leq V_{in} \leq 23V$, $5mA \leq I_{out} \leq 350mA$	8.57	9	9.45		
Line Regulation	REGline	$T_j=25^{\circ}C$	$11.5V \leq V_{in} \leq 26V$	--	6	180	mV
			$12V \leq V_{in} \leq 17V$	--	2	90	
Load Regulation	REGload	$T_j=25^{\circ}C$	$5mA \leq I_{out} \leq 500mA$	--	12	180	
			$5mA \leq I_{out} \leq 200mA$	--	4	90	
Quiescent Current	I_q	$I_{out}=0$, $T_j=25^{\circ}C$	--	3	6	mA	
Quiescent Current Change	ΔI_q	$11.5V \leq V_{in} \leq 26V$	--	--	0.8		
		$5mA \leq I_{out} \leq 350mA$	--	--	0.5		
Output Noise Voltage	V_n	$10Hz \leq f \leq 100KHz$, $T_j=25^{\circ}C$	--	52	--	μV	
Ripple Rejection Ratio	RR	$f=120Hz$, $12V \leq V_{in} \leq 22V$	55	80	--	dB	
Voltage Drop	V_{drop}	$I_{out}=500mA$, $T_j=25^{\circ}C$	--	2	--	V	
Output Resistance	R_{out}	$f=1KHz$	--	16	--	$m\Omega$	
Output Short Circuit Current	I_{os}	$T_j=25^{\circ}C$	--	50	--	mA	
Peak Output Current	$I_{o peak}$	$T_j=25^{\circ}C$	--	0.7	--	A	
Temperature Coefficient of Output Voltage	$\Delta V_{out} / \Delta T_j$	$I_{out}=5mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$	--	-0.2	--	$mV / ^{\circ}C$	

- Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible, and thermal effects must be taken into account separately.
- This specification applies only for DC power dissipation permitted by absolute maximum ratings.

TS78M00 Series

3-Terminal 500mA Positive Voltage Regulator

TS78M12 Electrical Characteristics

($V_{in}=19V$, $I_{out}=350mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$, $C_{in}=0.33\mu F$, $C_{out}=0.1\mu F$; unless otherwise specified.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit	
Output Voltage	Vout	$T_j=25^{\circ}C$	11.53	12	12.48	V	
		$14.5V \leq V_{in} \leq 27V$, $5mA \leq I_{out} \leq 350mA$	11.42	12	12.60		
Line Regulation	REGline	$T_j=25^{\circ}C$	$14.5V \leq V_{in} \leq 30V$	--	10	240	mV
			$15V \leq V_{in} \leq 19V$	--	3	120	
Load Regulation	REGload	$T_j=25^{\circ}C$	$5mA \leq I_{out} \leq 500mA$	--	12	240	
			$5mA \leq I_{out} \leq 200mA$	--	4	120	
Quiescent Current	Iq	$T_j=25^{\circ}C$, $I_{out}=0$	--	3	6	mA	
Quiescent Current Change	ΔIq	$14.5V \leq V_{in} \leq 30V$ $5mA \leq I_{out} \leq 500mA$	--	--	0.8		
			--	--	0.5		
Output Noise Voltage	Vn	$10Hz \leq f \leq 100KHz$, $T_j=25^{\circ}C$	--	75	--	μV	
Ripple Rejection Ratio	RR	$f=120Hz$, $15V \leq V_{in} \leq 25V$	55	80	--	dB	
Voltage Drop	Vdrop	$I_{out}=500mA$, $T_j=25^{\circ}C$	--	2	--	V	
Output Resistance	Rout	$f=1KHz$	--	18	--	$m\Omega$	
Output Short Circuit Current	Ios	$T_j=25^{\circ}C$	--	50	--	mA	
Peak Output Current	I _{o peak}	$T_j=25^{\circ}C$	--	0.7	--	A	
Temperature Coefficient of Output Voltage	$\Delta V_{out} / \Delta T_j$	$I_{out}=5mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$	--	-0.3	--	$mV / ^{\circ}C$	

TS78M15 Electrical Characteristics

($V_{in}=23V$, $I_{out}=350mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$, $C_{in}=0.33\mu F$, $C_{out}=0.1\mu F$; unless otherwise specified.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit	
Output voltage	Vout	$T_j=25^{\circ}C$	14.42	15	15.60	V	
		$17.5V \leq V_{in} \leq 30V$, $5mA \leq I_{out} \leq 350mA$	14.28	15	15.75		
Line Regulation	REGline	$T_j=25^{\circ}C$	$17.5V \leq V_{in} \leq 30V$	--	12	300	mV
			$18V \leq V_{in} \leq 22V$	--	3	150	
Load Regulation	REGload	$T_j=25^{\circ}C$	$5mA \leq I_{out} \leq 500mA$	--	12	300	
			$5mA \leq I_{out} \leq 200mA$	--	4	150	
Quiescent Current	Iq	$T_j=25^{\circ}C$, $I_{out}=0$	--	3	6	mA	
Quiescent Current Change	ΔIq	$17.5V \leq V_{in} \leq 30V$ $5mA \leq I_{out} \leq 500mA$	--	--	0.8		
			--	--	0.5		
Output Noise Voltage	Vn	$10Hz \leq f \leq 100KHz$, $T_j=25^{\circ}C$	--	90	--	μV	
Ripple Rejection Ratio	RR	$f=120Hz$, $18V \leq V_{in} \leq 28V$	54	80	--	dB	
Voltage Drop	Vdrop	$I_{out}=500mA$, $T_j=25^{\circ}C$	--	2	--	V	
Output Resistance	Rout	$f=1KHz$	--	19	--	$m\Omega$	
Output Short Circuit Current	Ios	$T_j=25^{\circ}C$	--	50	--	mA	
Peak Output Current	I _{o peak}	$T_j=25^{\circ}C$	--	0.7	--	A	
Temperature Coefficient of Output Voltage	$\Delta V_{out} / \Delta T_j$	$I_{out}=10mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$	--	-0.3	--	$mV / ^{\circ}C$	

- Pulse testing techniques are used to maintain the junction temperature as close to the ambient temperature as possible, and thermal effects must be taken into account separately.
- This specification applies only for DC power dissipation permitted by absolute maximum ratings.

TS78M18 Electrical Characteristics

($V_{in}=24V$, $I_{out}=350mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$, $C_{in}=0.33\mu F$, $C_{out}=0.1\mu F$; unless otherwise specified.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit	
Output Voltage	Vout	$T_j=25^{\circ}C$	17.30	18	18.72	V	
		$21V \leq V_{in} \leq 33V$, $5mA \leq I_{out} \leq 350mA$	17.14	18	18.90		
Line Regulation	REGline	$T_j=25^{\circ}C$	$21V \leq V_{in} \leq 33V$	--	15	360	mV
			$22V \leq V_{in} \leq 26V$	--	5	180	
Load Regulation	REGload	$T_j=25^{\circ}C$	$5mA \leq I_{out} \leq 500mA$	--	12	360	
			$5mA \leq I_{out} \leq 200mA$	--	4	180	
Quiescent Current	Iq	$T_j=25^{\circ}C$, $I_{out}=0$	--	3	6	mA	
Quiescent Current Change	ΔIq	$21V \leq V_{in} \leq 33V$	--	--	0.8		
		$5mA \leq I_{out} \leq 500mA$	--	--	0.5		
Output Noise Voltage	Vn	$10Hz \leq f \leq 100KHz$, $T_j=25^{\circ}C$	--	110	--	μV	
Ripple Rejection Ratio	RR	$f=120Hz$, $21V \leq V_{in} \leq 31V$	54	80	--	dB	
Voltage Drop	Vdrop	$I_{out}=500mA$, $T_j=25^{\circ}C$	--	2	--	V	
Output Resistance	Rout	$f=1KHz$	--	22	--	$m\Omega$	
Output Short Circuit Current	Ios	$T_j=25^{\circ}C$	--	50	--	mA	
Peak Output Current	I _{o peak}	$T_j=25^{\circ}C$	--	0.7	--	A	
Temperature Coefficient of Output Voltage	$\Delta V_{out}/\Delta T_j$	$I_{out}=5mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$	--	-0.5	--	$mV/^{\circ}C$	

TS78M24 Electrical Characteristics

($V_{in}=33V$, $I_{out}=350mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$, $C_{in}=0.33\mu F$, $C_{out}=0.1\mu F$; unless otherwise specified.)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit	
Output voltage	Vout	$T_j=25^{\circ}C$	23.07	24	24.96	V	
		$27V \leq V_{in} \leq 38V$, $5mA \leq I_{out} \leq 350mA$	22.85	24	25.20		
Line Regulation	REGline	$T_j=25^{\circ}C$	$27V \leq V_{in} \leq 38V$	--	18	480	mV
			$28V \leq V_{in} \leq 32V$	--	6	240	
Load Regulation	REGload	$T_j=25^{\circ}C$	$5mA \leq I_{out} \leq 500mA$	--	12	480	
			$5mA \leq I_{out} \leq 200mA$	--	4	240	
Quiescent Current	Iq	$I_{out}=0$, $T_j=25^{\circ}C$	--	3	6	mA	
Quiescent Current Change	ΔIq	$27V \leq V_{in} \leq 38V$	--	--	0.8		
		$5mA \leq I_{out} \leq 500mA$	--	--	0.5		
Output Noise Voltage	Vn	$10Hz \leq f \leq 100KHz$, $T_j=25^{\circ}C$	--	170	--	μV	
Ripple Rejection Ratio	RR	$f=120Hz$, $27V \leq V_{in} \leq 37V$	54	80	--	dB	
Voltage Drop	Vdrop	$I_{out}=500mA$, $T_j=25^{\circ}C$	--	2	--	V	
Output Resistance	Rout	$f=1KHz$	--	28	--	$m\Omega$	
Output Short Circuit Current	Ios	$T_j=25^{\circ}C$	--	50	--	mA	
Peak Output Current	I _{o peak}	$T_j=25^{\circ}C$	--	0.7	--	A	
Temperature Coefficient of Output Voltage	$\Delta V_{out}/\Delta T_j$	$I_{out}=5mA$, $0^{\circ}C \leq T_j \leq 125^{\circ}C$	--	-0.5	--	$mV/^{\circ}C$	

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Electrical Characteristics Curve

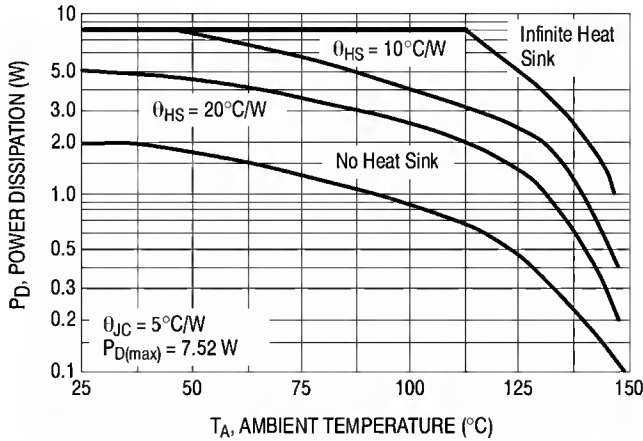


Figure 1. Worst Case Power Dissipation vs. Ambient Temperature (TO-220)

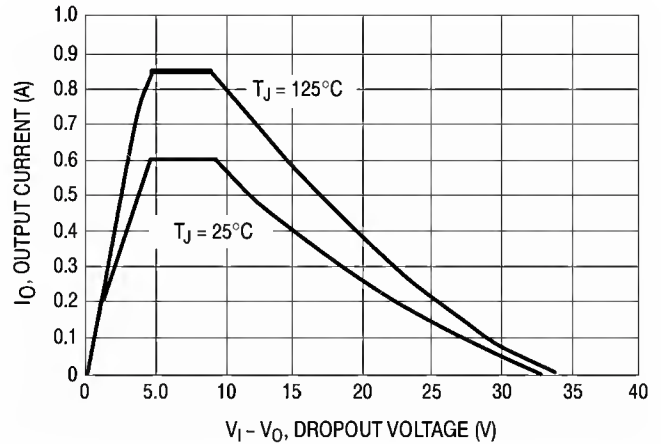


Figure 2. Peak Output Current vs. Dropout Voltage

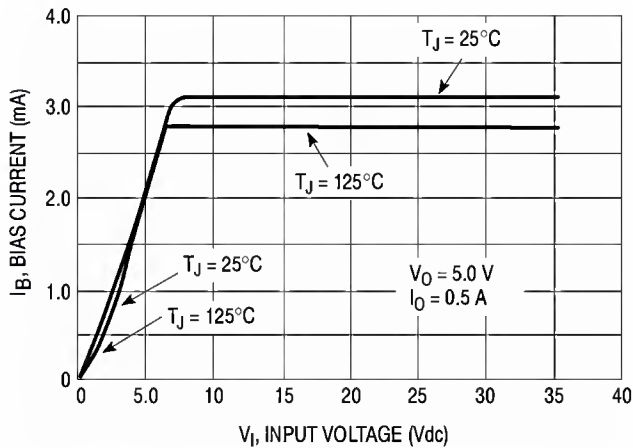


Figure 3. Bias Current vs. Input Voltage

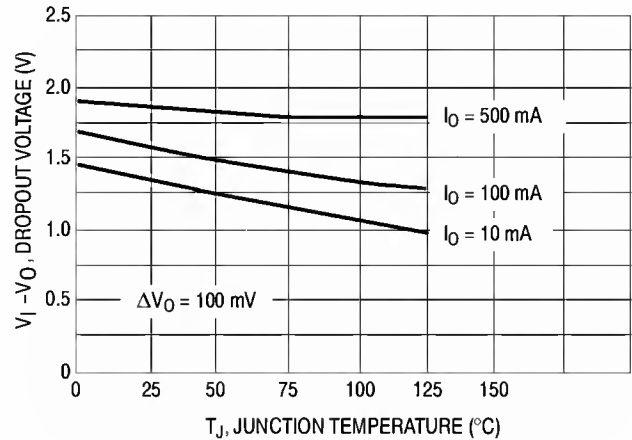


Figure 4. Dropout Voltage vs. Junction Temperature

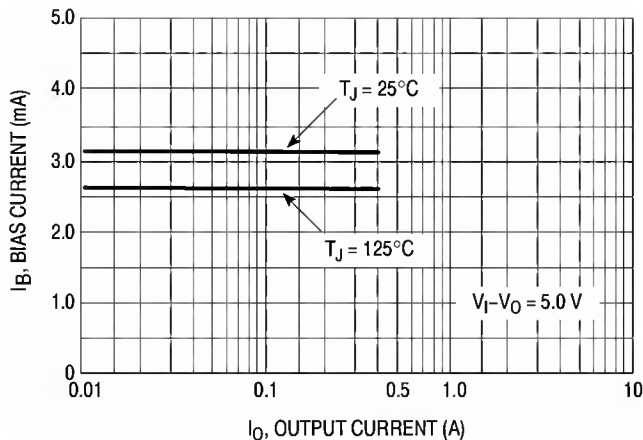


Figure 5. Bias Current vs. Output Current

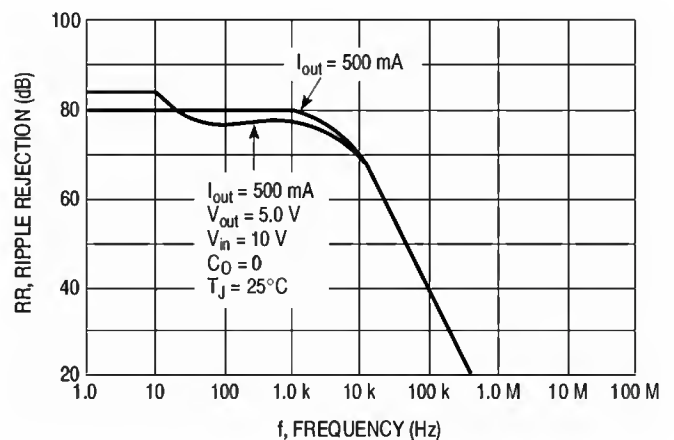


Figure 6. Ripple Rejection vs. Frequency

Application information

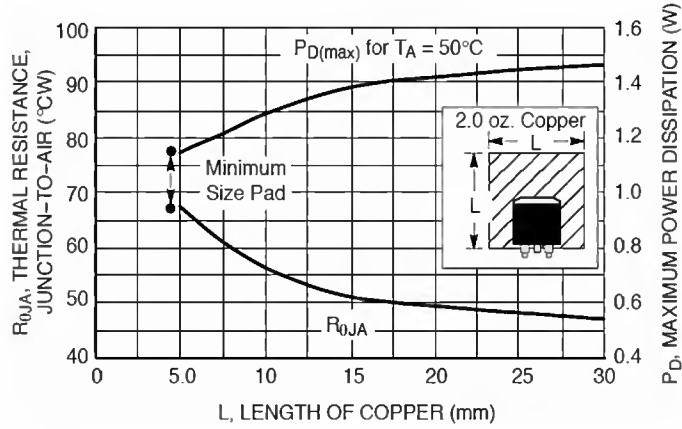
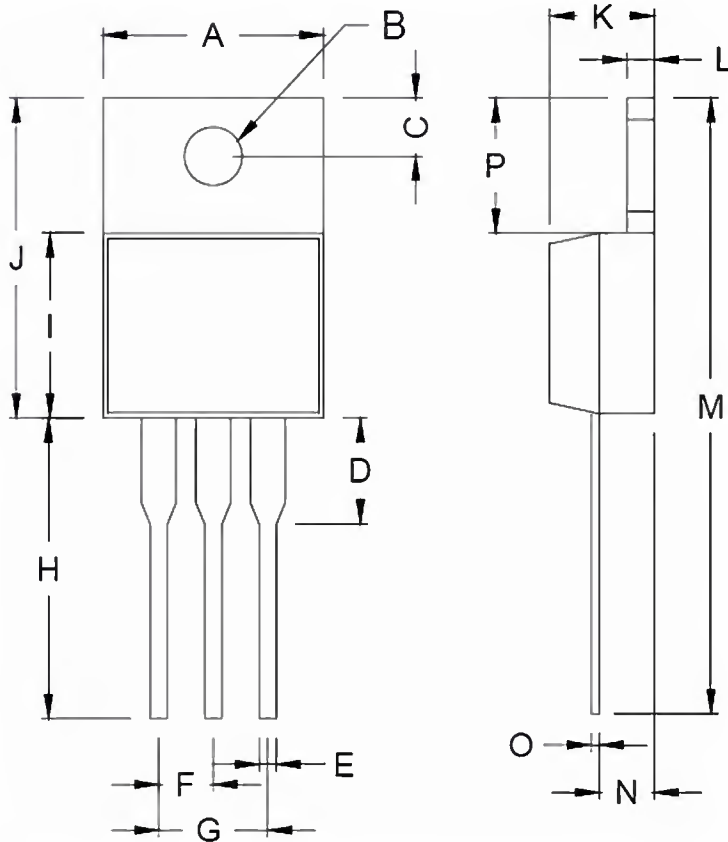


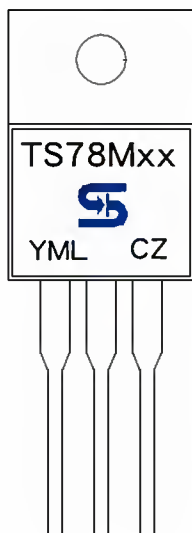
Figure 7. DPAK Thermal Resistance and Maximum Power Dissipation vs. P.C.B Copper Length

TO-220 Mechanical Drawing



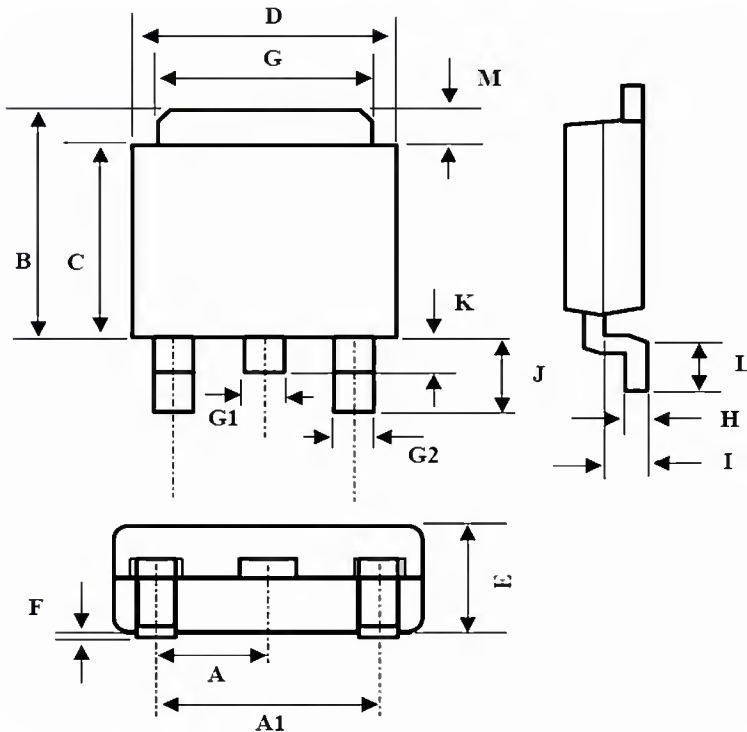
TO-220 DIMENSION				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	10.000	10.500	0.394	0.413
B	3.740	3.910	0.147	0.154
C	2.440	2.940	0.096	0.116
D	-	6.350	-	0.250
E	0.381	1.106	0.015	0.040
F	2.345	2.715	0.092	0.058
G	4.690	5.430	0.092	0.107
H	12.700	14.732	0.500	0.581
I	8.382	9.017	0.330	0.355
J	14.224	16.510	0.560	0.650
K	3.556	4.826	0.140	0.190
L	0.508	1.397	0.020	0.055
M	27.700	29.620	1.060	1.230
N	2.032	2.921	0.080	0.115
O	0.255	0.610	0.010	0.024
P	5.842	6.858	0.230	0.270

Marking Diagram



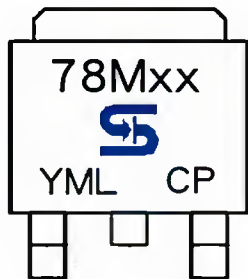
- XX** = Output Voltage
(05=5V, 08=8V, 09=9V, 12=12V, 15=15V, 18=18V, 24=24V)
- Y** = Year Code
- M** = Month Code
(A=Jan, B=Feb, C=Mar, D=Apr, E=May, F=Jun, G=Jul, H=Aug, I=Sep, J=Oct, K=Nov, L=Dec)
- L** = Lot Code
- CZ** = Package Code for TO-220

TO-252 Mechanical Drawing



DIM	TO-252 DIMENSION			
	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	2.3BSC		0.09BSC	
A1	4.6BSC		0.18BSC	
B	6.80	7.20	0.268	0.283
C	5.40	5.60	0.213	0.220
D	6.40	6.65	0.252	0.262
E	2.20	2.40	0.087	0.094
F	0.00	0.20	0.000	0.008
G	5.20	5.40	0.205	0.213
G1	0.75	0.85	0.030	0.033
G2	0.55	0.65	0.022	0.026
H	0.35	0.65	0.014	0.026
I	0.90	1.50	0.035	0.059
J	2.20	2.80	0.087	0.110
K	0.50	1.10	0.020	0.043
L	0.90	1.50	0.035	0.059
M	1.30	1.70	0.051	0.67

Marking Diagram



- XX** = Output Voltage
(05=5V, 08=8V, 09=9V, 12=12V, 15=15V, 18=18V, 24=24V)
- Y** = Year Code
- M** = Month Code
(A=Jan, B=Feb, C=Mar, D=Apl, E=May, F=Jun, G=Jul, H=Aug, I=Sep, J=Oct, K=Nov, L=Dec)
- L** = Lot Code
- CP** = Package Code for TO-252

TS78M00 Series

3-Terminal 500mA Positive Voltage Regulator

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.