

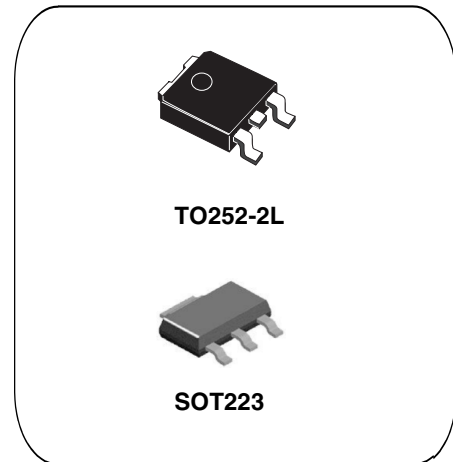
LM78Mxx Precision 500 mA regulators

Features

- Output current to 0.5 A
- Output voltages of 5; 6; 8; 9; 10; 12; 15; 24 V
- Thermal overload protection
- Short circuit protection
- Output transition SOA protection
- $\pm 2\%$ output voltage tolerance
- Guaranteed in extended temperature range

Description

The LM78Mxx series of three-terminal positive regulators is available in DPAK, TO252-2L, and TO223 packages and with several fixed output voltages, making it useful in a wide range of applications. These regulators can provide local on-card regulation eliminating the distribution problems associated with single point regulation. Each type employs internal current limiting, thermal shutdown and safe area protection, making it essentially indestructible. If adequate heat sinking is provided, they can deliver over 0.5 A output current. Although designed primarily as fixed voltage regulators, these devices can be used with external components to obtain adjustable voltage and currents.



PIN CONFIGURATION

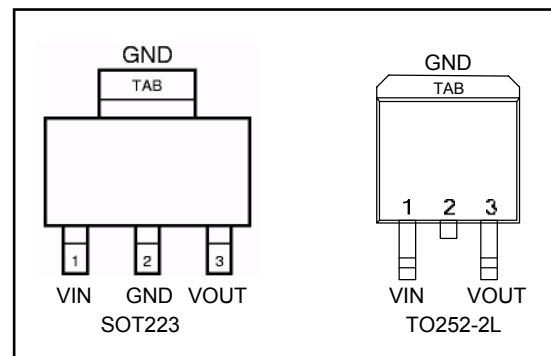
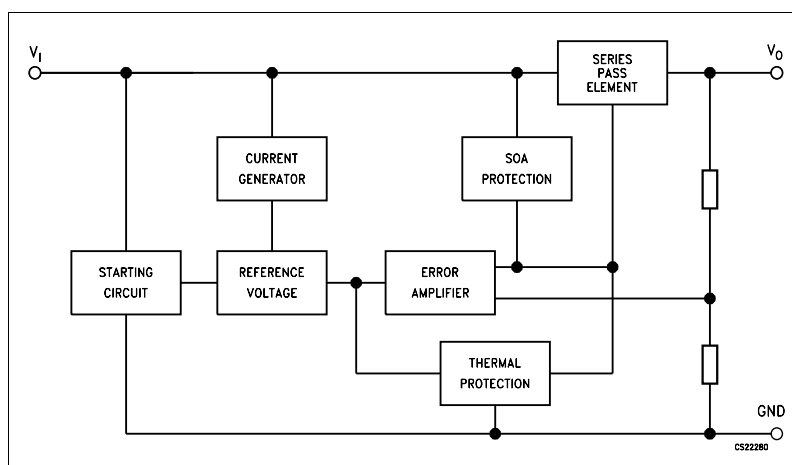


Figure 1. Block diagram



ORDERING INFORMATION

DEVICE	Package Type	MARKING	Packing	Packing Qty
LM78M05CDT/TR	TO252-2L	LM78M05	REEL	2500pcs/reel
LM78M06CDT/TR	TO252-2L	LM78M06	REEL	2500pcs/reel
LM78M08CDT/TR	TO252-2L	LM78M08	REEL	2500pcs/reel
LM78M09CDT/TR	TO252-2L	LM78M09	REEL	2500pcs/reel
LM78M10CDT/TR	TO252-2L	LM78M10	REEL	2500pcs/reel
LM78M12CDT/TR	TO252-2L	LM78M12	REEL	2500pcs/reel
LM78M15CDT/TR	TO252-2L	LM78M15	REEL	2500pcs/reel
LM78M24CDT/TR	TO252-2L	LM78M24	REEL	2500pcs/reel
LM78M05IDT/TR	TO252-2L	LM78M05	REEL	2500pcs/reel
LM78M06IDT/TR	TO252-2L	LM78M06	REEL	2500pcs/reel
LM78M08IDT/TR	TO252-2L	LM78M08	REEL	2500pcs/reel
LM78M09IDT/TR	TO252-2L	LM78M09	REEL	2500pcs/reel
LM78M10IDT/TR	TO252-2L	LM78M10	REEL	2500pcs/reel
LM78M12IDT/TR	TO252-2L	LM78M12	REEL	2500pcs/reel
LM78M15IDT/TR	TO252-2L	LM78M15	REEL	2500pcs/reel
LM78M24IDT/TR	TO252-2L	LM78M24	REEL	2500pcs/reel
LM78M05CMP/TR	SOT223	78M05	REEL	2000pcs/reel
LM78M06CMP/TR		78M06	REEL	2000pcs/reel
LM78M08CMP/TR		78M08	REEL	2000pcs/reel
LM78M09CMP/TR		78M09	REEL	2000pcs/reel
LM78M10CMP/TR		78M10	REEL	2000pcs/reel
LM78M12CMP/TR		78M12	REEL	2000pcs/reel
LM78M15CMP/TR		78M15	REEL	2000pcs/reel
LM78M24CMP/TR		78M24	REEL	2000pcs/reel
LM78M05IMP/TR	SOT223	78M05	REEL	2000pcs/reel
LM78M06IMP/TR		78M06	REEL	2000pcs/reel
LM78M08IMP/TR		78M08	REEL	2000pcs/reel
LM78M09IMP/TR		78M09	REEL	2000pcs/reel
LM78M10IMP/TR		78M10	REEL	2000pcs/reel
LM78M12IMP/TR		78M12	REEL	2000pcs/reel
LM78M15IMP/TR		78M15	REEL	2000pcs/reel
LM78M24IMP/TR		78M24	REEL	2000pcs/reel

3 Maximum ratings

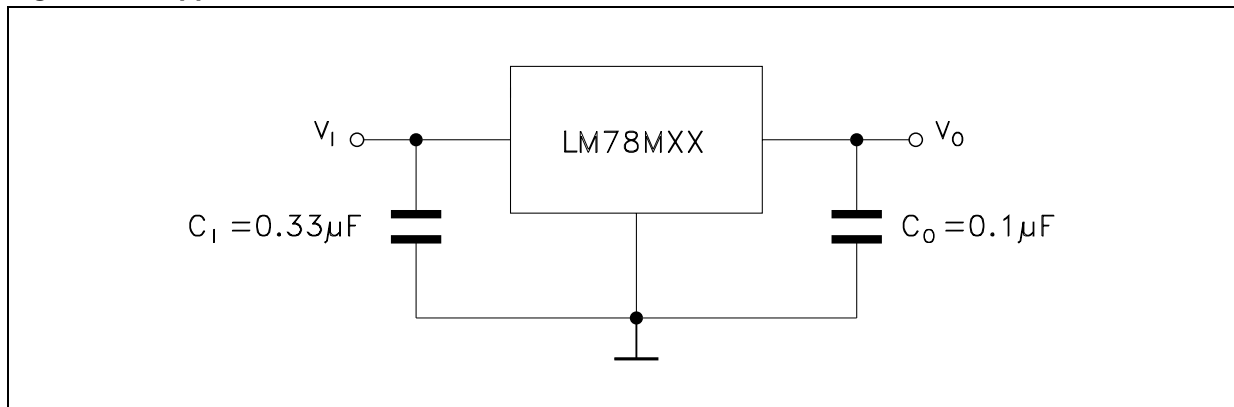
Table 2. Absolute maximum ratings

Symbol	Parameter		Value	Unit
V_I	DC input voltage	for $V_O = 5$ to 18 V	35	V
		for $V_O = 20, 24$ V	40	
I_O	Output current		Internally limited	mA
P_D	Power dissipation		Internally limited	mW
T_{STG}	Storage temperature range		-65 to 150	°C
T_{OP}	Operating junction temperature range	for LM78MxxC	0 to 70	°C
		for LM78MxxI	-40 to 85	

Note: Absolute maximum ratings are those values beyond which damage to the device may occur. Functional operation under these condition is not implied.

Table 3. Thermal data

Symbol	Parameter	DK	Unit
R_{thJC}	Thermal resistance junction-case	8	°C/W
R_{thJA}	Thermal resistance junction-ambient	100	°C/W

Figure 4. Application circuit


5 Electrical characteristics

Table 4. Electrical characteristics of 78M05

 Refer to the test circuits, $V_I = 10\text{ V}$, $I_O = 350\text{ mA}$, $C_I = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$, $T_J = -40\text{ to }125\text{ }^\circ\text{C}$ (AB), $T_J = 0\text{ to }125\text{ }^\circ\text{C}$ (AC) unless otherwise specified.

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$T_J = 25^\circ\text{C}$	4.9	5	5.1	V
V_O	Output voltage	$I_O = 5\text{ to }350\text{ mA}$, $V_I = 7\text{ to }20\text{ V}$	4.8	5	5.2	V
ΔV_O	Line regulation	$V_I = 7\text{ to }25\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			100	mV
		$V_I = 8\text{ to }25\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			50	
ΔV_O	Load regulation	$I_O = 5\text{ to }500\text{ mA}$, $T_J = 25^\circ\text{C}$			100	mV
		$I_O = 5\text{ to }200\text{ mA}$, $T_J = 25^\circ\text{C}$			50	
I_d	Quiescent current	$T_J = 25^\circ\text{C}$			6	mA
ΔI_d	Quiescent current change	$I_O = 5\text{ to }350\text{ mA}$			0.5	mA
		$I_O = 200\text{ mA}$, $V_I = 8\text{ to }25\text{ V}$			0.8	
$\Delta V_O/\Delta T$	Output voltage drift	$I_O = 5\text{ mA}$		-0.5		mV/ $^\circ\text{C}$
SVR	Supply voltage rejection	$V_I = 8\text{ to }18\text{ V}$, $f = 120\text{ Hz}$, $I_O = 300\text{ mA}$, $T_J = 25^\circ\text{C}$	62			dB
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$, $T_J = 25^\circ\text{C}$		40		μV
V_d	Dropout voltage	$T_J = 25^\circ\text{C}$		2		V
I_{sc}	Short circuit current	$T_J = 25^\circ\text{C}$, $V_I = 35\text{ V}$		300		mA
I_{scp}	Short circuit peak current	$T_J = 25^\circ\text{C}$		700		mA

Table 5. Electrical characteristics of 78M06

 Refer to the test circuits, $V_I = 11\text{ V}$, $I_O = 350\text{ mA}$, $C_I = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$, $T_J = -40\text{ to }125\text{ }^\circ\text{C}$ (AB), $T_J = 0\text{ to }125\text{ }^\circ\text{C}$ (AC) unless otherwise specified.

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$T_J = 25^\circ\text{C}$	5.88	6	6.12	V
V_O	Output voltage	$I_O = 5\text{ to }350\text{ mA}$, $V_I = 8\text{ to }21\text{ V}$	5.75	6	6.3	V
ΔV_O	Line regulation	$V_I = 8\text{ to }25\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			100	mV
		$V_I = 9\text{ to }25\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			30	
ΔV_O	Load regulation	$I_O = 5\text{ to }500\text{ mA}$, $T_J = 25^\circ\text{C}$			120	mV
		$I_O = 5\text{ to }200\text{ mA}$, $T_J = 25^\circ\text{C}$			60	
I_d	Quiescent current	$T_J = 25^\circ\text{C}$			6	mA
ΔI_d	Quiescent current change	$I_O = 5\text{ to }350\text{ mA}$			0.5	mA
		$I_O = 200\text{ mA}$, $V_I = 9\text{ to }25\text{ V}$			0.8	
$\Delta V_O/\Delta T$	Output voltage drift	$I_O = 5\text{ mA}$		-0.5		mV/ $^\circ\text{C}$
SVR	Supply voltage rejection	$V_I = 9\text{ to }19\text{ V}$, $f = 120\text{ Hz}$, $I_O = 300\text{ mA}$, $T_J = 25^\circ\text{C}$	59			dB
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$		45		μV
V_d	Dropout voltage	$T_J = 25^\circ\text{C}$		2		V
I_{sc}	Short circuit current	$T_J = 25^\circ\text{C}$, $V_I = 35\text{ V}$		270		mA
I_{scp}	Short circuit peak current	$T_J = 25^\circ\text{C}$		700		mA

Table 6. Electrical characteristics of 78M08

 Refer to the test circuits, $V_I = 14\text{ V}$, $I_O = 350\text{ mA}$, $C_I = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$, $T_J = -40\text{ to }125\text{ }^\circ\text{C}$ (AB), $T_J = 0\text{ to }125\text{ }^\circ\text{C}$ (AC) unless otherwise specified).

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$T_J = 25^\circ\text{C}$	7.84	8	8.16	V
V_O	Output voltage	$I_O = 5\text{ to }350\text{ mA}$, $V_I = 10.5\text{ to }23\text{ V}$	7.7	8	8.3	V
ΔV_O	Line regulation	$V_I = 10.5\text{ to }25\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			100	mV
		$V_I = 11\text{ to }25\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			30	
ΔV_O	Load regulation	$I_O = 5\text{ to }500\text{ mA}$, $T_J = 25^\circ\text{C}$			160	mV
		$I_O = 5\text{ to }200\text{ mA}$, $T_J = 25^\circ\text{C}$			80	
I_d	Quiescent current	$T_J = 25^\circ\text{C}$			6	mA
ΔI_d	Quiescent current change	$I_O = 5\text{ to }350\text{ mA}$			0.5	mA
		$I_O = 200\text{ mA}$, $V_I = 10.5\text{ to }25\text{ V}$			0.8	
$\Delta V_O/\Delta T$	Output voltage drift	$I_O = 5\text{ mA}$		-0.5		mV/ $^\circ\text{C}$
SVR	Supply voltage rejection	$V_I = 11.5\text{ to }21.5\text{ V}$, $f = 120\text{ Hz}$ $I_O = 300\text{ mA}$, $T_J = 25^\circ\text{C}$	56			dB
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$, $T_J = 25^\circ\text{C}$		52		μV
V_d	Dropout voltage	$T_J = 25^\circ\text{C}$		2		V
I_{sc}	Short circuit current	$T_J = 25^\circ\text{C}$, $V_I = 35\text{ V}$		250		mA
I_{scp}	Short circuit peak current	$T_J = 25^\circ\text{C}$		700		mA

Table 7. Electrical characteristics of 78M09

 Refer to the test circuits, $V_I = 15\text{ V}$, $I_O = 350\text{ mA}$, $C_I = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$, $T_J = -40\text{ to }125\text{ }^\circ\text{C}$ (AB), $T_J = 0\text{ to }125\text{ }^\circ\text{C}$ (AC) unless otherwise specified).

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$T_J = 25^\circ\text{C}$	8.82	9	9.18	V
V_O	Output voltage	$I_O = 5\text{ to }350\text{ mA}$, $V_I = 11.5\text{ to }24\text{ V}$	8.64	9	9.36	V
ΔV_O	Line regulation	$V_I = 11.5\text{ to }25\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			100	mV
		$V_I = 12\text{ to }25\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			30	
ΔV_O	Load regulation	$I_O = 5\text{ to }500\text{ mA}$, $T_J = 25^\circ\text{C}$			180	mV
		$I_O = 5\text{ to }200\text{ mA}$, $T_J = 25^\circ\text{C}$			90	
I_d	Quiescent current	$T_J = 25^\circ\text{C}$			6	mA
ΔI_d	Quiescent current change	$I_O = 5\text{ to }350\text{ mA}$			0.5	mA
		$I_O = 200\text{ mA}$, $V_I = 11.5\text{ to }25\text{ V}$			0.8	
$\Delta V_O/\Delta T$	Output voltage drift	$I_O = 5\text{ mA}$		-0.5		mV/ $^\circ\text{C}$
SVR	Supply voltage rejection	$V_I = 12.5\text{ to }23\text{ V}$, $f = 120\text{ Hz}$, $I_O = 300\text{ mA}$, $T_J = 25^\circ\text{C}$	56			dB
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$, $T_J = 25^\circ\text{C}$		52		μV
V_d	Dropout voltage	$T_J = 25^\circ\text{C}$		2		V
I_{sc}	Short circuit current	$V_I = 35\text{ V}$, $T_J = 25^\circ\text{C}$		250		mA
I_{scp}	Short circuit peak current	$T_J = 25^\circ\text{C}$		700		mA

Table 8. Electrical characteristics of 78M10

 Refer to the test circuits, $V_I = 16\text{ V}$, $I_O = 350\text{ mA}$, $C_I = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$,
 $T_J = -40\text{ to }125\text{ }^\circ\text{C}$ (AB), $T_J = 0\text{ to }125\text{ }^\circ\text{C}$ (AC) unless otherwise specified.

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$T_J = 25^\circ\text{C}$	9.8	10	10.2	V
V_O	Output voltage	$I_O = 5\text{ to }350\text{ mA}$, $V_I = 12.5\text{ to }25\text{ V}$	9.6	10	10.4	V
ΔV_O	Line regulation	$V_I = 12.5\text{ to }30\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			100	mV
		$V_I = 13\text{ to }30\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			30	
ΔV_O	Load regulation	$I_O = 5\text{ to }500\text{ mA}$, $T_J = 25^\circ\text{C}$			200	mV
		$I_O = 5\text{ to }200\text{ mA}$, $T_J = 25^\circ\text{C}$			100	
I_d	Quiescent current	$T_J = 25^\circ\text{C}$			6	mA
ΔI_d	Quiescent current change	$I_O = 5\text{ to }350\text{ mA}$			0.5	mA
		$I_O = 200\text{ mA}$, $V_I = 12.5\text{ to }30\text{ V}$			0.8	
$\Delta V_O/\Delta T$	Output voltage drift	$I_O = 5\text{ mA}$		-0.5		mV/ $^\circ\text{C}$
SVR	Supply voltage rejection	$V_I = 13.5\text{ to }24\text{ V}$, $f = 120\text{ Hz}$, $I_O = 300\text{ mA}$, $T_J = 25^\circ\text{C}$	56			dB
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$, $T_J = 25^\circ\text{C}$		64		μV
V_d	Dropout voltage	$T_J = 25^\circ\text{C}$		2		V
I_{sc}	Short circuit current	$V_I = 35\text{ V}$, $T_J = 25^\circ\text{C}$		245		mA
I_{scp}	Short circuit peak current	$T_J = 25^\circ\text{C}$		700		mA

Table 9. Electrical characteristics of 78M12

 Refer to the test circuits, $V_I = 19\text{ V}$, $I_O = 350\text{ mA}$, $C_I = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$,
 $T_J = -40\text{ to }125\text{ }^\circ\text{C}$ (AB), $T_J = 0\text{ to }125\text{ }^\circ\text{C}$ (AC) unless otherwise specified.

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$T_J = 25^\circ\text{C}$	11.75	12	12.25	V
V_O	Output voltage	$I_O = 5\text{ to }350\text{ mA}$, $V_I = 14.5\text{ to }27\text{ V}$	11.5	12	12.5	V
ΔV_O	Line regulation	$V_I = 14.5\text{ to }30\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			100	mV
		$V_I = 16\text{ to }30\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			30	
ΔV_O	Load regulation	$I_O = 5\text{ to }500\text{ mA}$, $T_J = 25^\circ\text{C}$			240	mV
		$I_O = 5\text{ to }200\text{ mA}$, $T_J = 25^\circ\text{C}$			120	
I_d	Quiescent current	$T_J = 25^\circ\text{C}$			6	mA
ΔI_d	Quiescent current change	$I_O = 5\text{ to }350\text{ mA}$			0.5	mA
		$I_O = 200\text{ mA}$, $V_I = 14.5\text{ to }30\text{ V}$			0.8	
$\Delta V_O/\Delta T$	Output voltage drift	$I_O = 5\text{ mA}$		-1		mV/ $^\circ\text{C}$
SVR	Supply voltage rejection	$V_I = 15\text{ to }25\text{ V}$, $f = 120\text{ Hz}$, $I_O = 300\text{ mA}$, $T_J = 25^\circ\text{C}$	55			dB
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$, $T_J = 25^\circ\text{C}$		75		μV
V_d	Dropout voltage	$T_J = 25^\circ\text{C}$		2		V
I_{sc}	Short circuit current	$V_I = 35\text{ V}$, $T_J = 25^\circ\text{C}$		240		mA
I_{scp}	Short circuit peak current	$T_J = 25^\circ\text{C}$		700		mA

Table 10. Electrical characteristics of 78M15

 Refer to the test circuits, $V_I = 23\text{ V}$, $I_O = 350\text{ mA}$, $C_I = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$, $T_J = -40\text{ to }125\text{ }^\circ\text{C}$ (AB), $T_J = 0\text{ to }125\text{ }^\circ\text{C}$ (AC) unless otherwise specified.

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$T_J = 25^\circ\text{C}$	14.7	15	15.3	V
V_O	Output voltage	$I_O = 5\text{ to }350\text{ mA}$, $V_I = 17.5\text{ to }30\text{ V}$	14.4	15	15.6	V
ΔV_O	Line regulation	$V_I = 17.5\text{ to }30\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			100	mV
		$V_I = 20\text{ to }30\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			30	
ΔV_O	Load regulation	$I_O = 5\text{ to }500\text{ mA}$, $T_J = 25^\circ\text{C}$			300	mV
		$I_O = 5\text{ to }200\text{ mA}$, $T_J = 25^\circ\text{C}$			150	
I_d	Quiescent current	$T_J = 25^\circ\text{C}$			6	mA
ΔI_d	Quiescent current change	$I_O = 5\text{ to }350\text{ mA}$			0.5	mA
		$I_O = 200\text{ mA}$, $V_I = 17.5\text{ to }30\text{ V}$			0.8	
$\Delta V_O/\Delta T$	Output voltage drift	$I_O = 5\text{ mA}$		-1		mV/ $^\circ\text{C}$
SVR	Supply voltage rejection	$V_I = 18.5\text{ to }28.5\text{ V}$, $f = 120\text{ Hz}$, $I_O = 300\text{ mA}$, $T_J = 25^\circ\text{C}$	54			dB
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$, $T_J = 25^\circ\text{C}$		90		μV
V_d	Dropout voltage	$T_J = 25^\circ\text{C}$		2		V
I_{sc}	Short circuit current	$V_I = 35\text{ V}$, $T_J = 25^\circ\text{C}$		240		mA
I_{scp}	Short circuit peak current	$T_J = 25^\circ\text{C}$		700		mA

Table 11. Electrical characteristics of 78M24

 Refer to the test circuits, $V_I = 33\text{ V}$, $I_O = 350\text{ mA}$, $C_I = 0.33\text{ }\mu\text{F}$, $C_O = 0.1\text{ }\mu\text{F}$, $T_J = -40\text{ to }125\text{ }^\circ\text{C}$ (AB), $T_J = 0\text{ to }125\text{ }^\circ\text{C}$ (AC) unless otherwise specified.

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
V_O	Output voltage	$T_J = 25^\circ\text{C}$	23.5	24	24.5	V
V_O	Output voltage	$I_O = 5\text{ to }350\text{ mA}$, $V_I = 27\text{ to }38\text{ V}$	23	24	25	V
ΔV_O	Line regulation	$V_I = 27\text{ to }38\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			100	mV
		$V_I = 28\text{ to }38\text{ V}$, $I_O = 200\text{ mA}$, $T_J = 25^\circ\text{C}$			30	
ΔV_O	Load regulation	$I_O = 5\text{ to }500\text{ mA}$, $T_J = 25^\circ\text{C}$			480	mV
		$I_O = 5\text{ to }200\text{ mA}$, $T_J = 25^\circ\text{C}$			240	
I_d	Quiescent current	$T_J = 25^\circ\text{C}$			6	mA
ΔI_d	Quiescent current change	$I_O = 5\text{ to }350\text{ mA}$			0.5	mA
		$I_O = 200\text{ mA}$, $V_I = 27\text{ to }38\text{ V}$			0.8	
$\Delta V_O/\Delta T$	Output voltage drift	$I_O = 5\text{ mA}$		-1.2		mV/ $^\circ\text{C}$
SVR	Supply voltage rejection	$V_I = 28\text{ to }38\text{ V}$, $f = 120\text{ Hz}$, $I_O = 300\text{ mA}$, $T_J = 25^\circ\text{C}$	50			dB
eN	Output noise voltage	$B = 10\text{ Hz to }100\text{ kHz}$, $T_J = 25^\circ\text{C}$		170		μV
V_d	Dropout voltage	$T_J = 25^\circ\text{C}$		2		V
I_{sc}	Short circuit current	$V_I = 35\text{ V}$, $T_J = 25^\circ\text{C}$		240		mA
I_{scp}	Short circuit peak current	$T_J = 25^\circ\text{C}$		700		mA

6 Typical performance

Figure 8. Dropout voltage vs. junction temp. Figure 9. Dropout characteristics

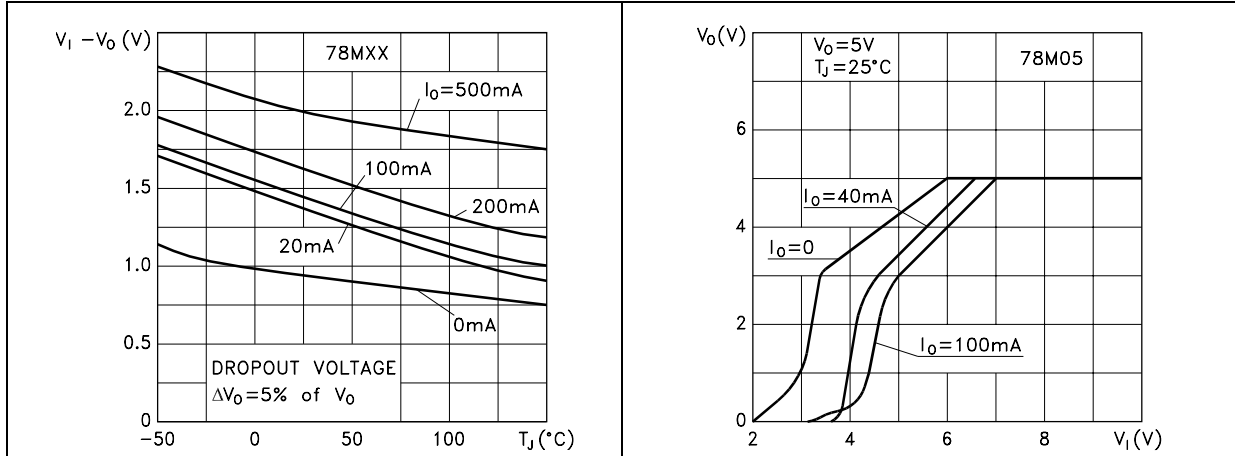


Figure 10. Peak output current vs. input-output differential voltage

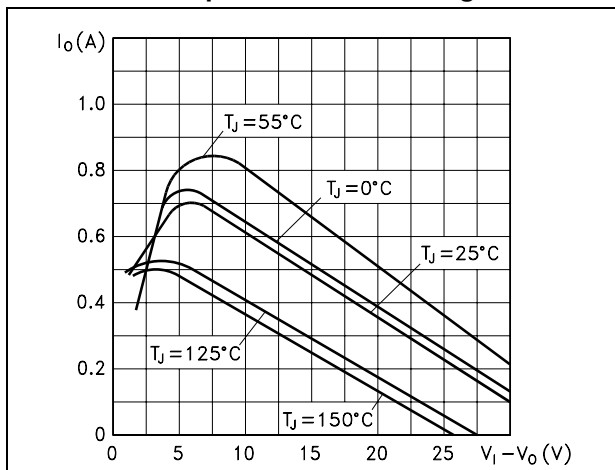


Figure 11. Output voltage vs. junction temperature

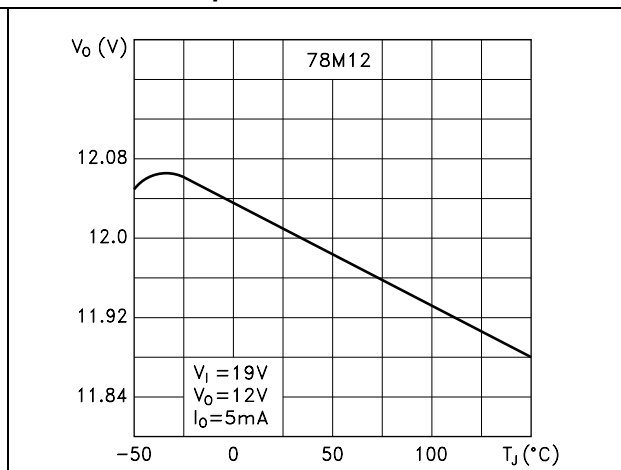


Figure 12. Supply voltage rejection vs. frequency

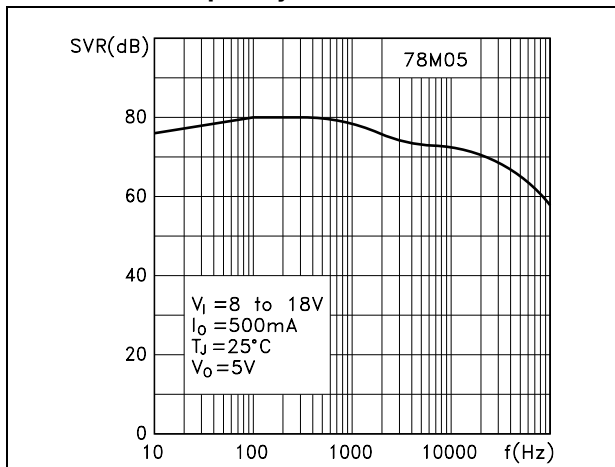


Figure 13. Quiescent current vs. junction temperature

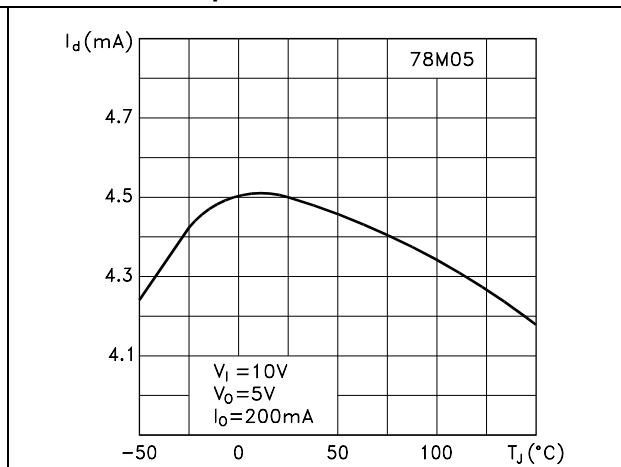


Figure 14. Load transient response

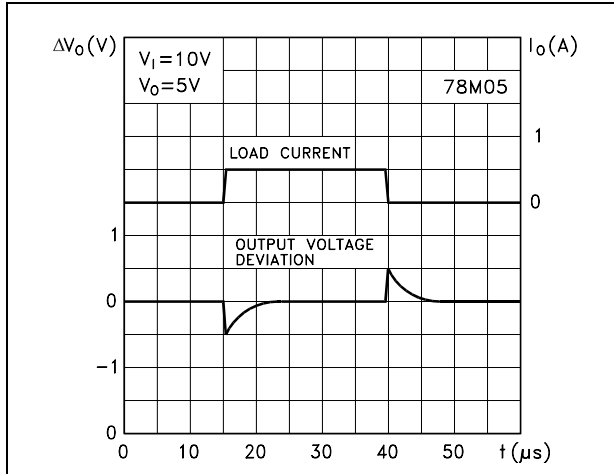


Figure 15. Line transient response

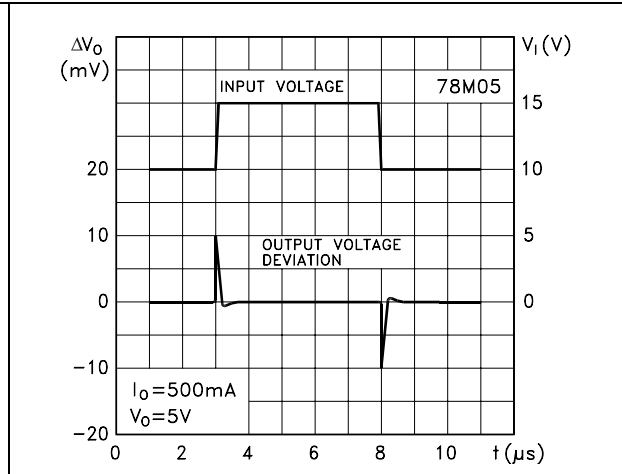
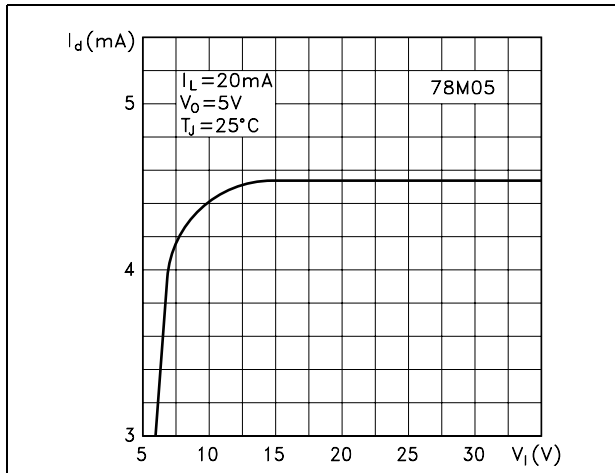
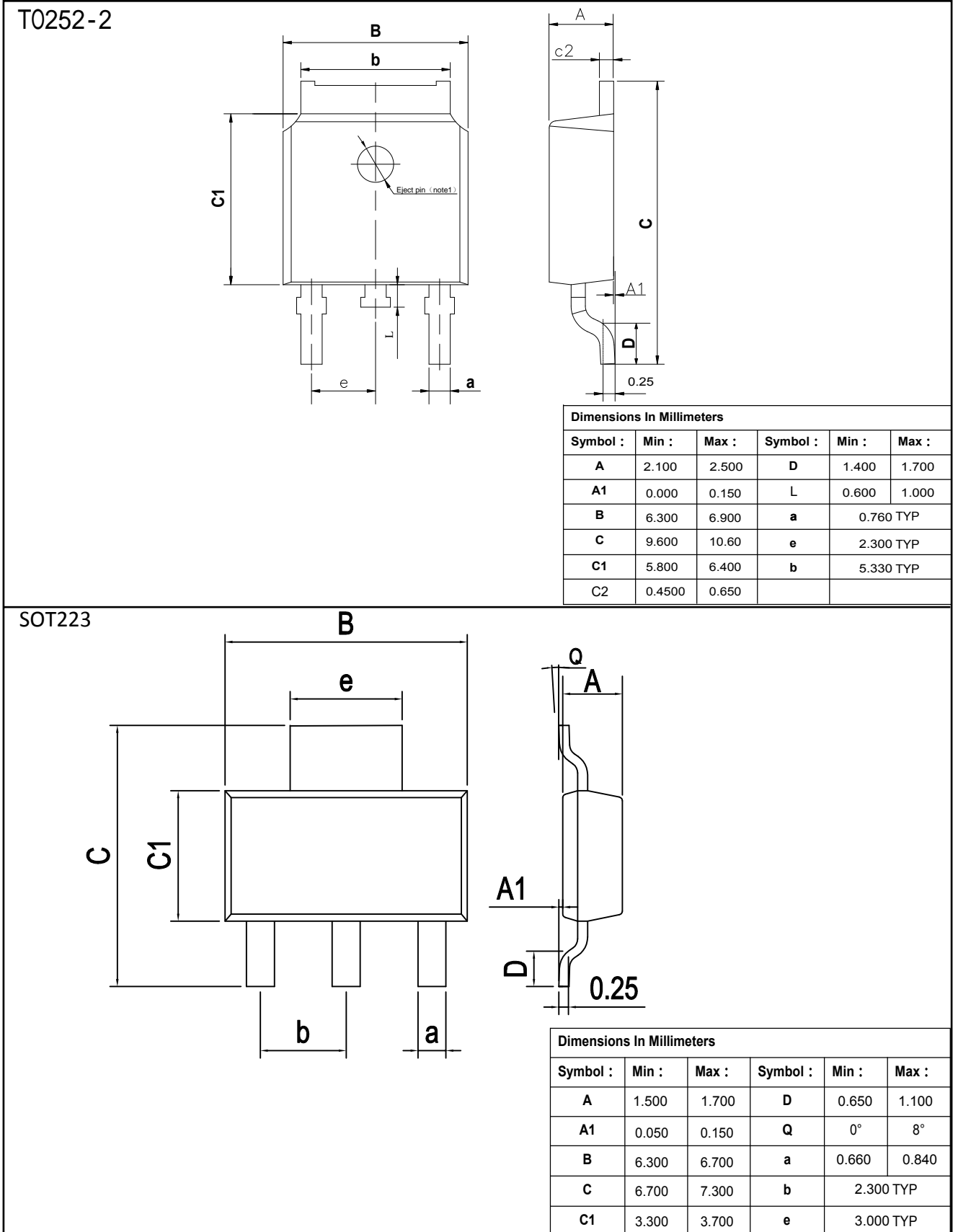


Figure 16. Quiescent current vs. input voltage



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