

[L78M05T]

Recommended Operating Conditions at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Input voltage	V_{IN}		7.5 to 20.0	V
Output current	I_{OUT}		5 to 500	mA

Operating Characteristics at $T_a=25^\circ C$, $V_{IN}=10V$, $I_{OUT}=350mA$, See specified Test Circuit.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V_{OUT}	$T_j=25^\circ C$	4.8	5.0	5.2	V
Line regulation	ΔV_O line	$T_j=25^\circ C, 7V \leq V_{IN} \leq 25V, I_{OUT}=200mA$		3.0	50	mV
		$T_j=25^\circ C, 8V \leq V_{IN} \leq 20V, I_{OUT}=200mA$		1.0	25	mV
Load regulation	ΔV_O load	$T_j=25^\circ C, 5mA \leq I_{OUT} \leq 500mA$			100	mV
		$T_j=25^\circ C, 5mA \leq I_{OUT} \leq 200mA$			50	mV
Output voltage	V_{OUT}	$7V \leq V_{IN} \leq 20V, 5mA \leq I_{OUT} \leq 350mA$	4.75		5.25	V
Current dissipation	I_{CC}	$T_j=25^\circ C$		4.5	6.0	mA
Current dissipation variation (Line)	ΔI_{CC} line	$8V \leq V_{IN} \leq 20V, I_{OUT}=200mA$			0.8	mA
Current dissipation variation (Load)	ΔI_{CC} load	$5mA \leq I_{OUT} \leq 350mA$			0.5	mA
Output noise voltage	V_{NO}	$10Hz \leq f \leq 100kHz$		40		μV
Ripple rejection	R _{rej}	$f=120Hz, 8V \leq V_{IN} \leq 19V, T_j=25^\circ C, I_{OUT}=100mA$	62			dB
		$f=120Hz, 8V \leq V_{IN} \leq 19V, T_j=25^\circ C, I_{OUT}=300mA$	62	80		dB
Minimum input-output voltage dropout	V_{drop}	$I_{OUT}=350mA$			2.0	V
Short current	I_{OS}	$T_j=25^\circ C, V_{IN}=35V, \text{to GND}$			300	mA
Peak output current	I_{OP}	$T_j=25^\circ C$			0.7	A

[L78M06T]

Recommended Operating Conditions at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Input voltage	V_{IN}		8.5 to 21	V
Output current	I_{OUT}		5 to 500	mA

Operating Characteristics at $T_a=25^\circ C$, $V_{IN}=11V$, $I_{OUT}=350mA$, See specified Test Circuit.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V_{OUT}	$T_j=25^\circ C$	5.75	6.0	6.25	V
Line regulation	ΔV_O line	$T_j=25^\circ C, 8V \leq V_{IN} \leq 25V, I_{OUT}=200mA$		5.0	60	mV
		$T_j=25^\circ C, 9V \leq V_{IN} \leq 20V, I_{OUT}=200mA$		1.5	30	mV
Load regulation	ΔV_O load	$T_j=25^\circ C, 5mA \leq I_{OUT} \leq 500mA$			120	mV
		$T_j=25^\circ C, 5mA \leq I_{OUT} \leq 200mA$			60	mV
Output voltage	V_{OUT}	$8V \leq V_{IN} \leq 21V, 5mA \leq I_{OUT} \leq 350mA$	5.7		6.3	V
Current dissipation	I_{CC}	$T_j=25^\circ C$		4.5	6.0	mA
Current dissipation variation (Line)	ΔI_{CC} line	$9V \leq V_{IN} \leq 25V, I_{OUT}=200mA$			0.8	mA
Current dissipation variation (Load)	ΔI_{CC} load	$5mA \leq I_{OUT} \leq 350mA$			0.5	mA
Output noise voltage	V_{NO}	$10Hz \leq f \leq 100kHz$		45		μV
Ripple rejection	R _{rej}	$f=120Hz, 9V \leq V_{IN} \leq 20V, T_j=25^\circ C, I_{OUT}=100mA$	59			dB
		$f=120Hz, 9V \leq V_{IN} \leq 20V, T_j=25^\circ C, I_{OUT}=300mA$	59	80		dB
Minimum input-output voltage dropout	V_{drop}	$I_{OUT}=350mA$			2.0	V
Short current	I_{OS}	$T_j=25^\circ C, V_{IN}=35V, \text{to GND}$			300	mA
Peak output current	I_{OP}	$T_j=25^\circ C$			0.7	A

[L78M07T]

Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings		Unit
Input voltage	V _{IN}		9.5 to 22		V
Output current	I _{OUT}		5 to 500		mA

Operating Characteristics at Ta=25°C, V_{IN}=12V, I_{OUT}=350mA, See specified Test Circuit.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V _{OUT}	T _j =25°C	6.72	7.0	7.28	V
Line regulation	ΔV _O line	T _j =25°C, 9V≤V _{IN} ≤25V, I _{OUT} =200mA		6.0	60	mV
		T _j =25°C, 10V≤V _{IN} ≤20V, I _{OUT} =200mA		2.0	30	mV
Load regulation	ΔV _O load	T _j =25°C, 5mA≤I _{OUT} ≤500mA			140	mV
		T _j =25°C, 5mA≤I _{OUT} ≤200mA			70	mV
Output voltage	V _{OUT}	9V≤V _{IN} ≤22V, 5mA≤I _{OUT} ≤350mA	6.6		7.4	V
Current dissipation	I _{CC}	T _j =25°C		4.6	6.0	mA
Current dissipation variation (Line)	ΔI _{CC} line	10V≤V _{IN} ≤25V, I _{OUT} =200mA			0.8	mA
Current dissipation variation (Load)	ΔI _{CC} load	5mA≤I _{OUT} ≤350mA			0.5	mA
Output noise voltage	V _{NO}	10Hz≤f≤100kHz		48		μV
Ripple rejection	R _{rej}	f=120Hz, 10V≤V _{IN} ≤21V, T _j =25°C, I _{OUT} =100mA	58			dB
		f=120Hz, 10V≤V _{IN} ≤21V, T _j =25°C, I _{OUT} =300mA	58	80		dB
Minimum input-output voltage dropout	V _{drop}	I _{OUT} =350mA		2.0		V
Short current	I _{OS}	T _j =25°C, V _{IN} =35V, to GND		300		mA
Peak output current	I _{OP}	T _j =25°C		0.7		A

[L78M08T]

Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings		Unit
Input voltage	V _{IN}		10.5 to 23		V
Output current	I _{OUT}		5 to 500		mA

Operating Characteristics at Ta=25°C, V_{IN}=15V, I_{OUT}=350mA, See specified Test Circuit.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V _{OUT}	T _j =25°C	7.7	8.0	8.3	V
Line regulation	ΔV _O line	T _j =25°C, 10.5V≤V _{IN} ≤25V, I _{OUT} =200mA		6.0	60	mV
		T _j =25°C, 11V≤V _{IN} ≤20V, I _{OUT} =200mA		2.0	30	mV
Load regulation	ΔV _O load	T _j =25°C, 5mA≤I _{OUT} ≤500mA			160	mV
		T _j =25°C, 5mA≤I _{OUT} ≤200mA			80	mV
Output voltage	V _{OUT}	10.5V≤V _{IN} ≤23V, 5mA≤I _{OUT} ≤350mA	7.6		8.4	V
Current dissipation	I _{CC}	T _j =25°C		4.6	6.0	mA
Current dissipation variation (Line)	ΔI _{CC} line	11V≤V _{IN} ≤25V, I _{OUT} =200mA			0.8	mA
Current dissipation variation (Load)	ΔI _{CC} load	5mA≤I _{OUT} ≤350mA			0.5	mA
Output noise voltage	V _{NO}	10Hz≤f≤100kHz		50		μV
Ripple rejection	R _{rej}	f=120Hz, 11.5V≤V _{IN} ≤22V, T _j =25°C, I _{OUT} =100mA	56			dB
		f=120Hz, 11.5V≤V _{IN} ≤22V, T _j =25°C, I _{OUT} =300mA	56	80		dB
Minimum input-output voltage dropout	V _{drop}	I _{OUT} =350mA		2.0		V
Short current	I _{OS}	T _j =25°C, V _{IN} =35V, to GND		300		mA
Peak output current	I _{OP}	T _j =25°C		0.7		A

[L78M09T]

Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings		Unit
Input voltage	V _{IN}			12 to 25	V
Output current	I _{OUT}			5 to 500	mA

Operating Characteristics at Ta=25°C, V_{IN}=16V, I_{OUT}=350mA, See specified Test Circuit.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V _{OUT}	T _j =25°C	8.6	9.0	9.4	V
Line regulation	ΔV _O line	T _j =25°C, 11.5V≤V _{IN} ≤25V, I _{OUT} =200mA		6.0	100	mV
		T _j =25°C, 12V≤V _{IN} ≤20V, I _{OUT} =200mA		2.0	50	mV
Load regulation	ΔV _O load	T _j =25°C, 5mA≤I _{OUT} ≤500mA			180	mV
		T _j =25°C, 5mA≤I _{OUT} ≤200mA			90	mV
Output voltage	V _{OUT}	11.5V≤V _{IN} ≤24V, 5mA≤I _{OUT} ≤350mA	8.5		9.5	V
Current dissipation	I _{CC}	T _j =25°C		4.6	6.0	mA
Current dissipation variation (Line)	ΔI _{CC} line	12.5V≤V _{IN} ≤25V, I _{OUT} =200mA			0.8	mA
Current dissipation variation (Load)	ΔI _{CC} load	5mA≤I _{OUT} ≤350mA			0.5	mA
Output noise voltage	V _{NO}	10Hz≤f≤100kHz		60		μV
Ripple rejection	R _{rej}	f=120Hz, 12V≤V _{IN} ≤23V, T _j =25°C, I _{OUT} =100mA	56			dB
		f=120Hz, 12V≤V _{IN} ≤23V, T _j =25°C, I _{OUT} =300mA	56	80		dB
Minimum input-output voltage dropout	V _{drop}	I _{OUT} =350mA		2.0		V
Short current	I _{OS}	T _j =25°C, V _{IN} =35V, to GND		300		mA
Peak output current	I _{OP}	T _j =25°C		0.7		A

[L78M10T]

Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings		Unit
Input voltage	V _{IN}			13 to 25	V
Output current	I _{OUT}			5 to 500	mA

Operating Characteristics at Ta=25°C, V_{IN}=17V, I_{OUT}=350mA, See specified Test Circuit.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V _{OUT}	T _j =25°C	9.6	10.0	10.4	V
Line regulation	ΔV _O line	T _j =25°C, 12.5V≤V _{IN} ≤25V, I _{OUT} =200mA		7.0	100	mV
		T _j =25°C, 13V≤V _{IN} ≤22V, I _{OUT} =200mA		2.0	50	mV
Load regulation	ΔV _O load	T _j =25°C, 5mA≤I _{OUT} ≤500mA			200	mV
		T _j =25°C, 5mA≤I _{OUT} ≤200mA			100	mV
Output voltage	V _{OUT}	12.5V≤V _{IN} ≤25V, 5mA≤I _{OUT} ≤350mA	9.5		10.5	V
Current dissipation	I _{CC}	T _j =25°C		4.6	6.0	mA
Current dissipation variation (Line)	ΔI _{CC} line	13.5V≤V _{IN} ≤25V, I _{OUT} =200mA			0.8	mA
Current dissipation variation (Load)	ΔI _{CC} load	5mA≤I _{OUT} ≤350mA			0.5	mA
Output noise voltage	V _{NO}	10Hz≤f≤100kHz		65		μV
Ripple rejection	R _{rej}	f=120Hz, 13V≤V _{IN} ≤25V, T _j =25°C, I _{OUT} =100mA	55			dB
		f=120Hz, 13V≤V _{IN} ≤25V, T _j =25°C, I _{OUT} =300mA	55	80		dB
Minimum input-output voltage dropout	V _{drop}	I _{OUT} =350mA		2.0		V
Short current	I _{OS}	T _j =25°C, V _{IN} =35V, to GND		300		mA
Peak output current	I _{OP}	T _j =25°C		0.7		A

[L78M12T]

Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Input voltage	V _{IN}		15 to 25	V
Output current	I _{OUT}		5 to 500	mA

Operating Characteristics at Ta=25°C, V_{IN}=19V, I_{OUT}=350mA, See specified Test Circuit.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V _{OUT}	T _j =25°C	11.5	12.0	12.5	V
Line regulation	ΔV _O line	T _j =25°C, 14.5V≤V _{IN} ≤30V, I _{OUT} =200mA		8.0	100	mV
		T _j =25°C, 16V≤V _{IN} ≤25V, I _{OUT} =200mA		2.0	50	mV
Load regulation	ΔV _O load	T _j =25°C, 5mA≤I _{OUT} ≤500mA			240	mV
		T _j =25°C, 5mA≤I _{OUT} ≤200mA			120	mV
Output voltage	V _{OUT}	14.5V≤V _{IN} ≤27V, 5mA≤I _{OUT} ≤350mA	11.4		12.6	V
Current dissipation	I _{CC}	T _j =25°C		4.8	6.0	mA
Current dissipation variation (Line)	ΔI _{CC} line	15V≤V _{IN} ≤30V, I _{OUT} =200mA			0.8	mA
Current dissipation variation (Load)	ΔI _{CC} load	5mA≤I _{OUT} ≤350mA			0.5	mA
Output noise voltage	V _{NO}	10Hz≤f≤100kHz		75		μV
Ripple rejection	R _{rej}	f=120Hz, 15V≤V _{IN} ≤25V, T _j =25°C, I _{OUT} =100mA	55			dB
		f=120Hz, 15V≤V _{IN} ≤25V, T _j =25°C, I _{OUT} =300mA	55	80		dB
Minimum input-output voltage dropout	V _{drop}	I _{OUT} =350mA		2.0		V
Short current	I _{OS}	T _j =25°C, V _{IN} =35V, to GND		300		mA
Peak output current	I _{OP}	T _j =25°C		0.7		A

[L78M15T]

Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Input voltage	V _{IN}		18 to 30	V
Output current	I _{OUT}		5 to 500	mA

Operating Characteristics at Ta=25°C, V_{IN}=23V, I_{OUT}=350mA, See specified Test Circuit.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V _{OUT}	T _j =25°C	14.4	15.0	15.6	V
Line regulation	ΔV _O line	T _j =25°C, 17.5V≤V _{IN} ≤30V, I _{OUT} =200mA		10.0	100	mV
		T _j =25°C, 19V≤V _{IN} ≤30V, I _{OUT} =200mA		3.0	50	mV
Load regulation	ΔV _O load	T _j =25°C, 5mA≤I _{OUT} ≤500mA			300	mV
		T _j =25°C, 5mA≤I _{OUT} ≤200mA			150	mV
Output voltage	V _{OUT}	17.5V≤V _{IN} ≤30V, 5mA≤I _{OUT} ≤350mA	14.25		15.75	V
Current dissipation	I _{CC}	T _j =25°C		4.8	6.0	mA
Current dissipation variation (Line)	ΔI _{CC} line	17.5V≤V _{IN} ≤30V, I _{OUT} =200mA			0.8	mA
Current dissipation variation (Load)	ΔI _{CC} load	5mA≤I _{OUT} ≤350mA			0.5	mA
Output noise voltage	V _{NO}	10Hz≤f≤100kHz		90		μV
Ripple rejection	R _{rej}	f=120Hz, 18.5V≤V _{IN} ≤28.5V, T _j =25°C, I _{OUT} =100mA	54			dB
		f=120Hz, 18.5V≤V _{IN} ≤28.5V, T _j =25°C, I _{OUT} =300mA	54	70		dB
Minimum input-output voltage dropout	V _{drop}	I _{OUT} =350mA		2.0		V
Short current	I _{OS}	T _j =25°C, V _{IN} =35V, to GND		300		mA
Peak output current	I _{OP}	T _j =25°C		0.7		A

[L78M18T]

Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings		Unit
Input voltage	V _{IN}			21 to 33	V
Output current	I _{OUT}			5 to 500	mA

Operating Characteristics at Ta=25°C, V_{IN}=27V, I_{OUT}=350mA, See specified Test Circuit.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V _{OUT}	T _j =25°C	17.3	18.0	18.7	V
Line regulation	ΔV _O line	T _j =25°C, 21V≤V _{IN} ≤35V, I _{OUT} =200mA		10.0	100	mV
		T _j =25°C, 22V≤V _{IN} ≤35V, I _{OUT} =200mA		5.0	50	mV
Load regulation	ΔV _O load	T _j =25°C, 5mA≤I _{OUT} ≤500mA			360	mV
		T _j =25°C, 5mA≤I _{OUT} ≤200mA			180	mV
Output voltage	V _{OUT}	21V≤V _{IN} ≤33V, 5mA≤I _{OUT} ≤350mA	17.1		18.9	V
Current dissipation	I _{CC}	T _j =25°C		4.9	6.0	mA
Current dissipation variation (Line)	ΔI _{CC} line	21V≤V _{IN} ≤33V, I _{OUT} =200mA			0.8	mA
Current dissipation variation (Load)	ΔI _{CC} load	5mA≤I _{OUT} ≤350mA			0.5	mA
Output noise voltage	V _{NO}	10Hz≤f≤100kHz		100		μV
Ripple rejection	R _{rej}	f=120Hz, 22V≤V _{IN} ≤33V, T _j =25°C, I _{OUT} =100mA	53			dB
		f=120Hz, 22V≤V _{IN} ≤33V, T _j =25°C, I _{OUT} =300mA	53	70		dB
Minimum input-output voltage dropout	V _{drop}	I _{OUT} =350mA		2.0		V
Short current	I _{OS}	T _j =25°C, V _{IN} =35V, to GND		300		mA
Peak output current	I _{OP}	T _j =25°C		0.7		A

[L78M20T]

Recommended Operating Conditions at Ta=25°C

Parameter	Symbol	Conditions	Ratings		Unit
Input voltage	V _{IN}			23 to 35	V
Output current	I _{OUT}			5 to 500	mA

Operating Characteristics at Ta=25°C, V_{IN}=29V, I_{OUT}=350mA, See specified Test Circuit.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V _{OUT}	T _j =25°C	19.2	20.0	20.8	V
Line regulation	ΔV _O line	T _j =25°C, 23V≤V _{IN} ≤35V, I _{OUT} =200mA		10.0	100	mV
		T _j =25°C, 24V≤V _{IN} ≤35V, I _{OUT} =200mA		5.0	50	mV
Load regulation	ΔV _O load	T _j =25°C, 5mA≤I _{OUT} ≤500mA			400	mV
		T _j =25°C, 5mA≤I _{OUT} ≤200mA			200	mV
Output voltage	V _{OUT}	23V≤V _{IN} ≤35V, 5mA≤I _{OUT} ≤350mA	19.0		21.0	V
Current dissipation	I _{CC}	T _j =25°C		4.9	6.0	mA
Current dissipation variation (Line)	ΔI _{CC} line	23V≤V _{IN} ≤35V, I _{OUT} =200mA			0.8	mA
Current dissipation variation (Load)	ΔI _{CC} load	5mA≤I _{OUT} ≤350mA			0.5	mA
Output noise voltage	V _{NO}	10Hz≤f≤100kHz		110		μV
Ripple rejection	R _{rej}	f=120Hz, 24V≤V _{IN} ≤34V, T _j =25°C, I _{OUT} =100mA	53			dB
		f=120Hz, 24V≤V _{IN} ≤34V, T _j =25°C, I _{OUT} =300mA	53	70		dB
Minimum input-output voltage dropout	V _{drop}	I _{OUT} =350mA		2.0		V
Short current	I _{OS}	T _j =25°C, V _{IN} =35V, to GND		300		mA
Peak output current	I _{OP}	T _j =25°C		0.7		A

[L78M24T]

Recommended Operating Conditions at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Input voltage	V_{IN}		27 to 35	V
Output current	I_{OUT}		5 to 500	mA

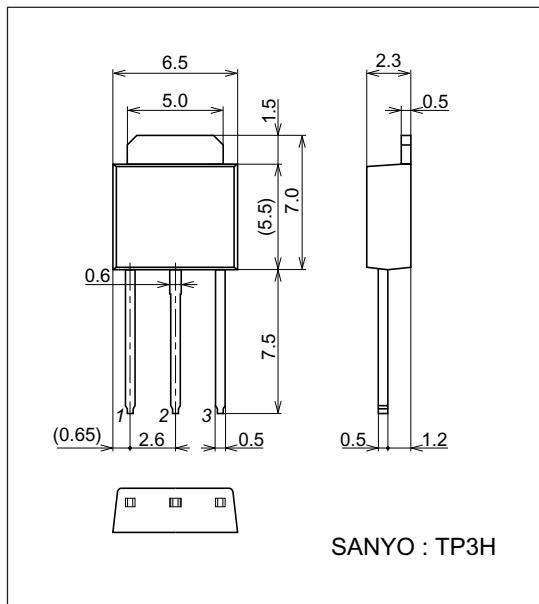
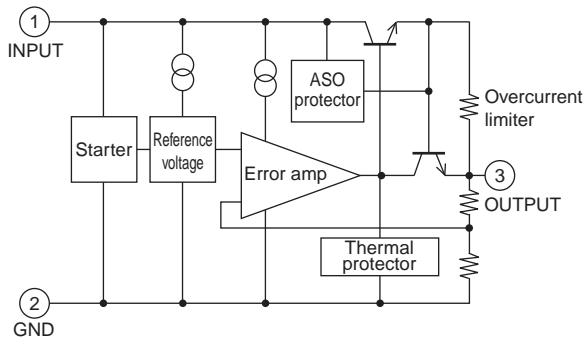
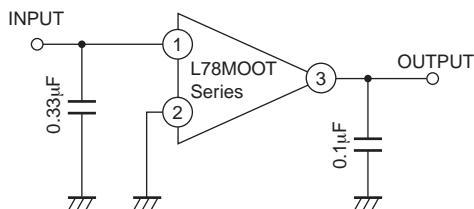
Operating Characteristics at $T_a=25^\circ\text{C}$, $V_{IN}=33\text{V}$, $I_{OUT}=350\text{mA}$, See specified Test Circuit.

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V_{OUT}	$T_j=25^\circ\text{C}$	23.0	24.0	25.0	V
Line regulation	ΔV_O line	$T_j=25^\circ\text{C}, 27\text{V} \leq V_{IN} \leq 35\text{V}, I_{OUT}=200\text{mA}$		10.0	100	mV
		$T_j=25^\circ\text{C}, 28\text{V} \leq V_{IN} \leq 35\text{V}, I_{OUT}=200\text{mA}$		5.0	50	mV
Load regulation	ΔV_O load	$T_j=25^\circ\text{C}, 5\text{mA} \leq I_{OUT} \leq 500\text{mA}$		480	480	mV
		$T_j=25^\circ\text{C}, 5\text{mA} \leq I_{OUT} \leq 200\text{mA}$		240	240	mV
Output voltage	V_{OUT}	$27\text{V} \leq V_{IN} \leq 35\text{V}, 5\text{mA} \leq I_{OUT} \leq 350\text{mA}$	22.8		25.2	V
Current dissipation	I_{CC}	$T_j=25^\circ\text{C}$		5.0	6.0	mA
Current dissipation variation (Line)	ΔI_{CC} line	$27\text{V} \leq V_{IN} \leq 35\text{V}, I_{OUT}=200\text{mA}$		0.8	0.8	mA
Current dissipation variation (Load)	ΔI_{CC} load	$5\text{mA} \leq I_{OUT} \leq 350\text{mA}$		0.5	0.5	mA
Output noise voltage	V_{NO}	$10\text{Hz} \leq f \leq 100\text{kHz}$		170		μV
Ripple rejection	R_{REJ}	$f=120\text{Hz}, 28\text{V} \leq V_{IN} \leq 35\text{V}, T_j=25^\circ\text{C}, I_{OUT}=100\text{mA}$	50			dB
		$f=120\text{Hz}, 28\text{V} \leq V_{IN} \leq 35\text{V}, T_j=25^\circ\text{C}, I_{OUT}=300\text{mA}$	50	70		dB
Minimum input-output voltage dropout	$V_{DROPOUT}$	$I_{OUT}=350\text{mA}$		2.0		V
Short current	I_{OS}	$T_j=25^\circ\text{C}, V_{IN}=35\text{V}$, to GND		300		mA
Peak output current	I_{OP}	$T_j=25^\circ\text{C}$		0.7		A

Package Dimensions

unit : mm

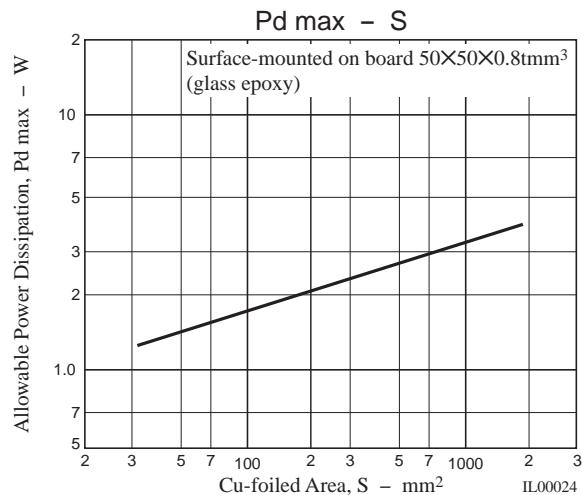
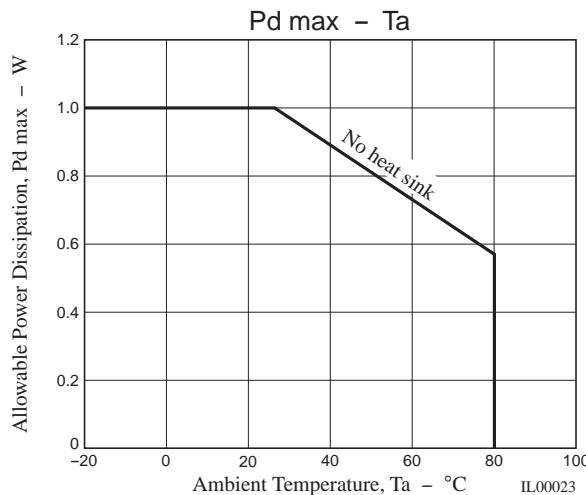
3110A

**Equivalent Circuit****Specified Test Circuit** (Common to L78M00T series)

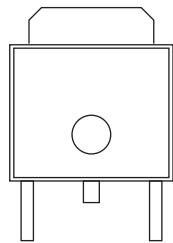
IL00022

The allowable power dissipation ($P_d \text{ max}$) is 1.0W ($T_a=25^\circ\text{C}$) with no fin attached. When the L78M00T series are surface-mounted on a hybrid IC board or printed circuit board, a high allowable power dissipation can be obtained, though they are placed in a small-sized package.

Shown below is the relationship between the Cu-foiled area and the allowable power dissipation when the L78M00T series are surface-mounted on a glass epoxy board ($50\times 50\times 0.8\text{mm}^3$).



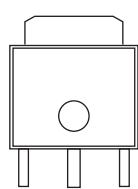
Lead Formings



FA formings



IL00025



LR formings

IL00026

- Specifications of any and all SANYO products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer's products or equipment.
- SANYO Electric Co., Ltd. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with some probability. It is possible that these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents or events cannot occur. Such measures include but are not limited to protective circuits and error prevention circuits for safe design, redundant design, and structural design.
- In the event that any or all SANYO products(including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from the authorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of SANYO Electric Co., Ltd.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. When designing equipment, refer to the "Delivery Specification" for the SANYO product that you intend to use.
- Information (including circuit diagrams and circuit parameters) herein is for example only ; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of February, 2006. Specifications and information herein are subject to change without notice.