



SHENZHEN TUOFENG SEMICONDUCTOR TECHNOLOGY CO., LTD

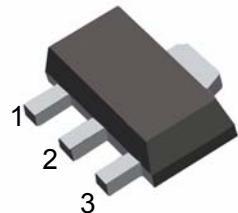
SOT-89 Encapsulate Three-terminal Voltage Regulator

LM78L06 Three-terminal positive voltage regulator**FEATURES****Maximum Output current** I_{OM} : 0.1 A**Output voltage** V_o : 6 V**Continuous total dissipation** P_D : 0.5W**SOT-89**

1.OUT

2.GND

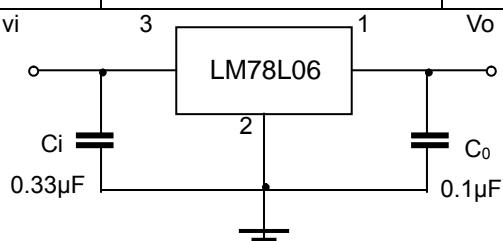
3.IN

**ABSOLUTE MAXIMUM RATINGS** (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Units
Input Voltage	V_i	30	V
Operating Junction Temperature Range	T_{OPR}	0-+125	°C
Storage Temperature Range	T_{STG}	-55-+150	°C

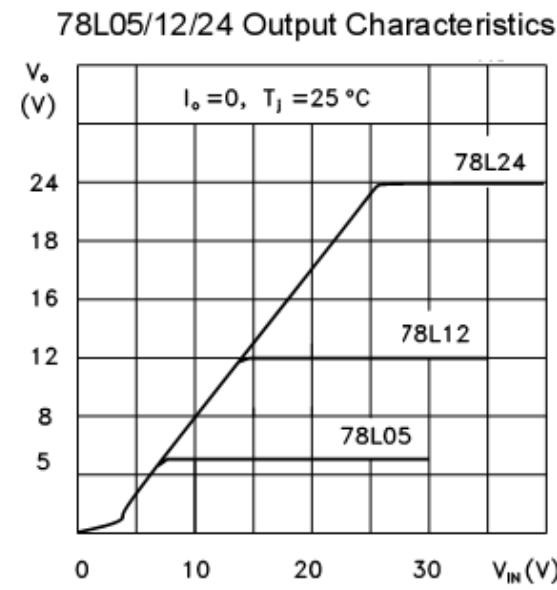
ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=11V, I_o=40mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o		25°C	5.75	6.0	6.25
		$8V \leq V_o \leq 20V, I_o=1mA-40mA$	0-125°C	5.7	6.0	6.3
		$I_o=1mA-70mA$		5.7	6.0	6.3
Load Regulation	ΔV_o	$I_o=1mA-100mA$	25°C	16	80	mV
		$I_o=1mA-40mA$	25°C	9	40	mV
Line regulation	ΔV_o	$8V \leq V_o \leq 20V$	25°C	35	175	mV
		$9V \leq V_o \leq 20V$	25°C	29	125	mV
Quiescent Current	I_q		25°C	3.9	6.0	mA
Quiescent Current Change	ΔI_q	$9V \leq V_o \leq 20V$	0-125°C		1.5	mA
		$1mA \leq I_o \leq 40mA$	0-125°C		0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$	25°C	46		uV
Ripple Rejection	RR	$9V \leq V_o \leq 19V, f=120Hz$	0-125°C	40	48	dB
Dropout Voltage	V_d		25°C	1.7		V

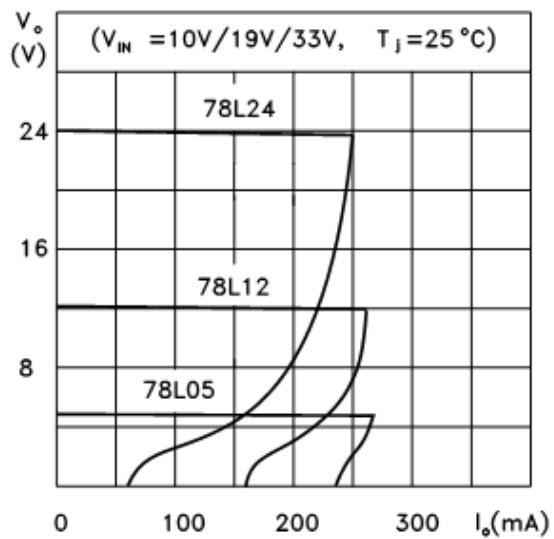
TYPICAL APPLICATION

Note : Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

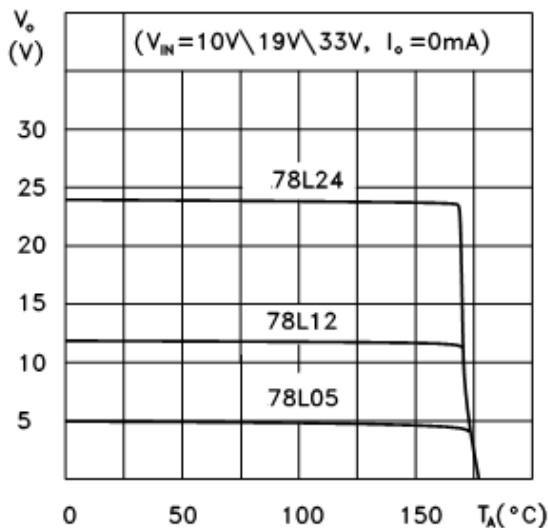
Typical Characteristics



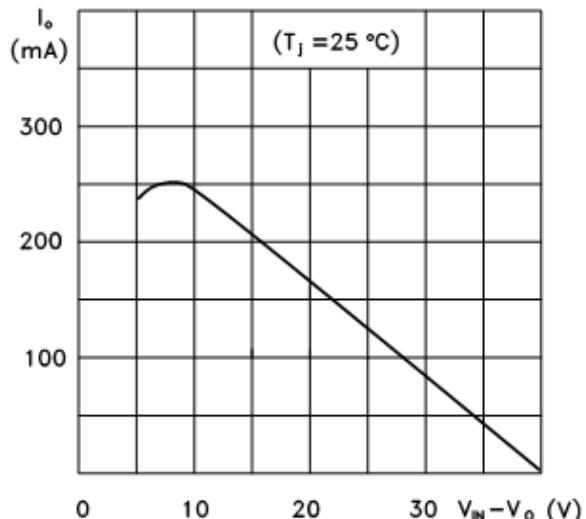
78L05/12/24 Load Characteristics



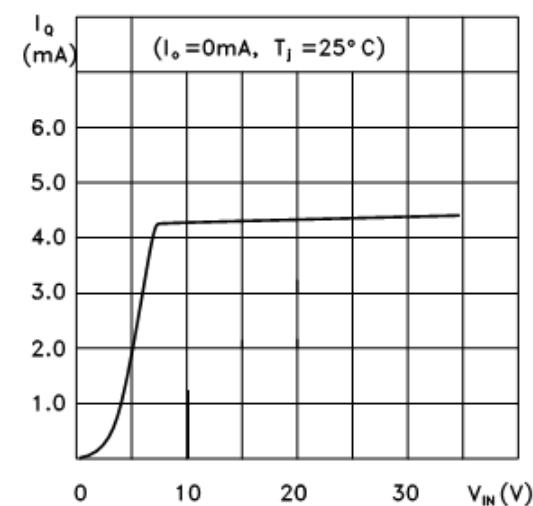
78L05/12/24 Thermal Shutdown



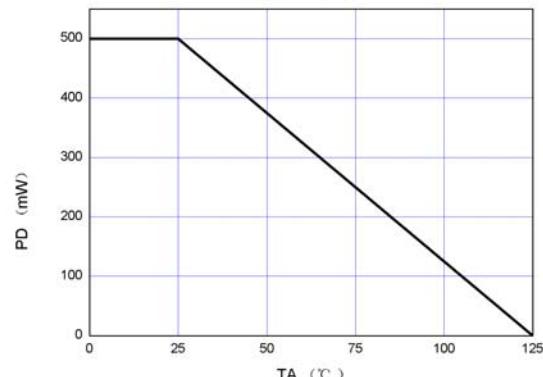
78L00 Series Short Circuit Output Current



78L05 Quiescent Current vs Input Voltage



PD-TA



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