

SOT-23 Plastic-Encapsulate Transistors

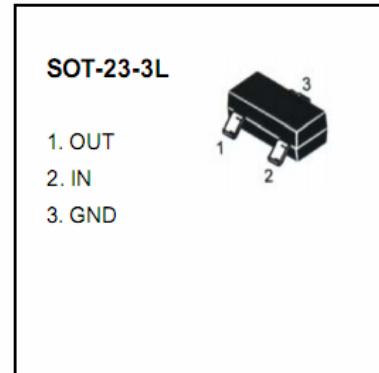
CS78L08 TRANSISTOR (NPN)

FEATURES:

Maximum Output current IO:0.1A

Output voltage VO:8V

PD:0.35W(Ta=25°C)



MARKING:L08

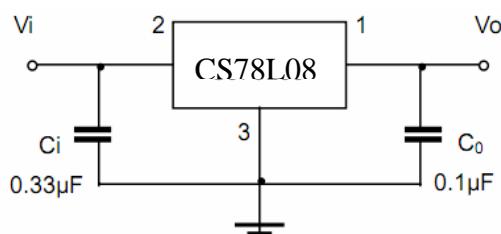
ABSOLUTE MAXIMUM RATINGS(Operating temperature unless otherwise specified)

Symbol (符号)	Parameter (参数名称)	Value (额定值)	Units (单位)
Vi	Input Voltage	30	V
T _{OPR}	Operating junction Temperature Range	0~+125	°C
T _{STG}	Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	Vo		25°C	7.7	8.0	8.3
		10.5V≤Vi≤23V, Io=1mA~40mA	0-125°C	7.6	8.0	8.4
		Io=1mA~70mA		7.6	8.0	8.4
Load Regulation	△Vo	Io=1mA~100mA	25°C		18	mV
		Io=1mA~40mA	25°C		10	mV
Line regulation	△Vo	10.5V≤Vi≤23V			42	mV
		11V≤Vi≤23V	25°C		36	125
Quiescent Current	Iq		25°C		4	6
Quiescent Current Change	△Iq	11V≤Vi≤23V	0-125°C			1.5
	△Iq	1mA≤Vi≤40mA	0-125°C			0.1
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25°C		54	uV
Ripple Rejection	RR	8V≤Vi≤20V, f=120Hz	0-125°C	37	46	dB
Dropout Voltage	V _d		25°C		1.7	V

TYPICAL APPLICATION

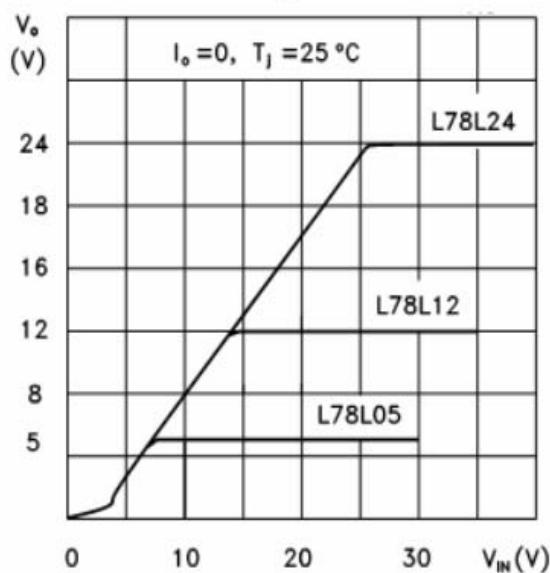


Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

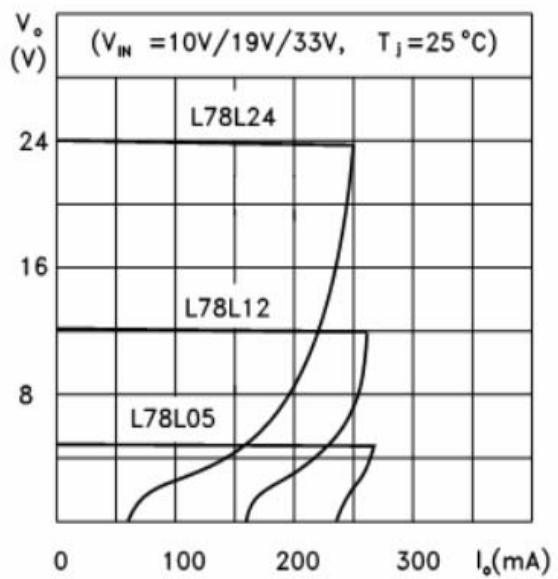
Typical Characteristics

CS78LXX

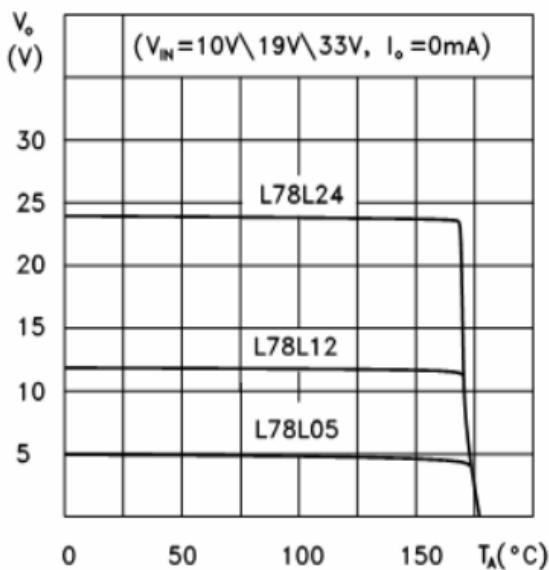
L78L05/12/24 Output Characteristics



L78L05/12/24 Load Characteristics



L78L05/12/24 Thermal Shutdown



L78L00 Series Short Circuit Output Current

