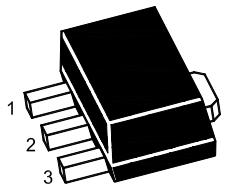
CHINA BASE INTERNATIONAL

SOT-89

78L10U

www.china-base.com.hk

3-Terminal Positive Voltage Regulator



1.OUT 2.GND 3.IN

SOT-89 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Rating	Unit
Input Voltage	V_I	35	V
Power Dissipation	P_{tot}	800 [1)]	mW
Operating Temperature	T_{opr}	- 20 to + 120	°C
Storage Temperature Range	T_{stg}	- 55 to +150	°C

[1)] 15 mm X 25 mm X 0.7 mm alumina ceramic board, $T_a \leq 25$ °C

Electrical Characteristics 78L10U

Electrical characteristics at specified virtual junction temperature, V_I= 17V, I_O = 40mA (unless otherwise noted)

Parameter	Test Conditions*		78L10A			Units
			Min	Typ	Max	
Output voltage**		25°C	9.6	10	10.4	V
	I_O= 1mA to 40 mA, V_I= 13V to 25V	0°C to 125°C	9.5	10	10.5	
	I_O= 1mA to 70mA,		9.5	10	10.5	
Input regulation	V_I= 13V to 25V	25°C		51	175	mV
	V_I= 14V to 25V			42	125	
Ripple rejection	V_I= 15V to 25V, f= 120Hz	0°C to 125°C	37	44		dB
Output regulation	I_O= 1mA to 100mA	25°C		20	90	mV
	I_O= 1mA to 40mA			11	40	
Output noise voltage	f= 10Hz to 100 KHz	25°C		62		µV
Dropout voltage		25°C		1.7		V
Bias current		25°C		4.2	6	mA
		125°C			5.5	
Bias current change	V_I= 14V to 25V	0°C to 125°C			1.5	
	I_O= 1mA to 40mA				0.1