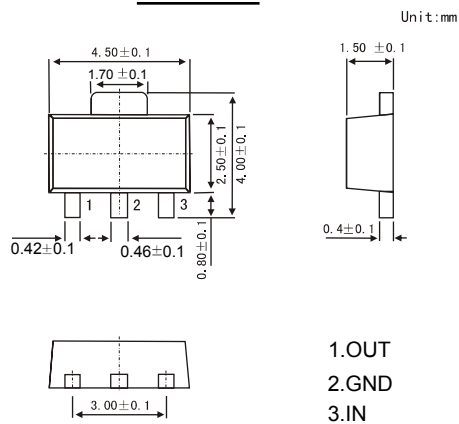


Three-Terminal Positive Voltage Regulator

SOT-89



1.OUT
2.GND
3.IN

Features

- Maximum Output current I_o : 0.1A
- Output Voltage V_o : 6V
- Continuous Total Dissipation P_d : 0.5W ($T_a = 25^\circ\text{C}$)

Application

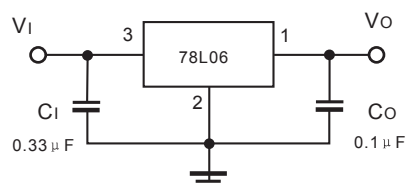
■ Absolute Maximum Ratings (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Rating	Unit
Input Voltage	V_i	30	V
Operating Junction Temperature Range	T_{OPR}	-55 ~ +125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 ~ +150	$^\circ\text{C}$

■ Electrical Characteristics ($V_i=12\text{V}$, $I_o=40\text{mA}$, $C_i=0.33\ \mu\text{F}$, $C_o=0.1\ \mu\text{F}$, unless otherwise specified)

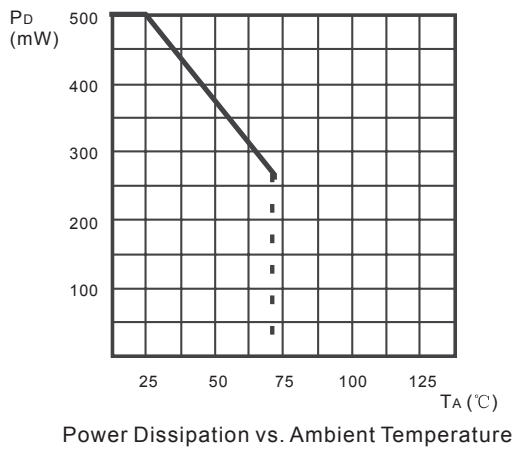
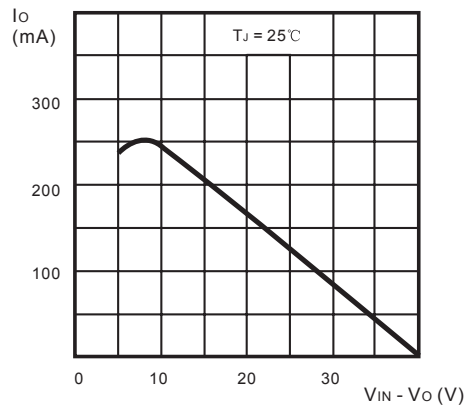
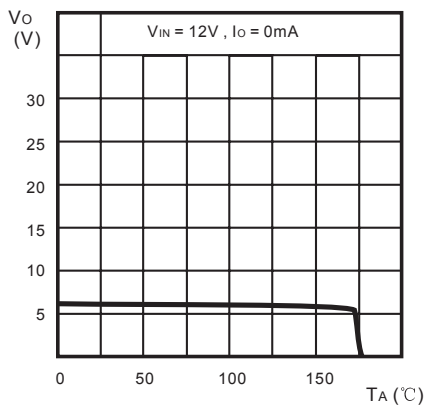
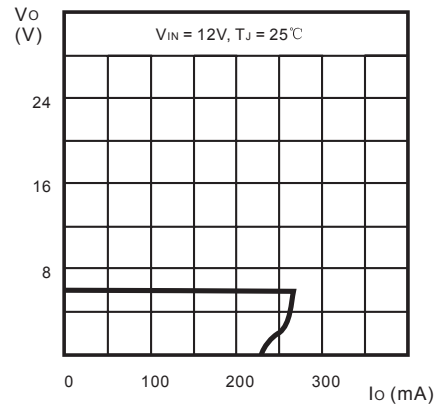
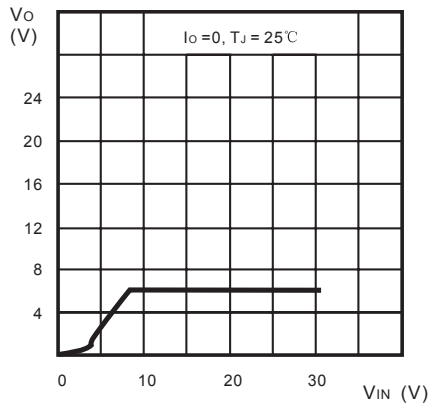
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V_o	$T_J = 25^\circ\text{C}$	5.75	6.0	6.25	V
		$T_J = 0 \sim 125^\circ\text{C}$, $8\text{V} \leq V_i \leq 20\text{V}$, $I_o = 1\text{mA} \sim 40\text{mA}$	5.7	6.0	6.3	V
		$T_J = 0 \sim 125^\circ\text{C}$, $I_o = 1\text{mA} \sim 70\text{mA}$	5.7	6.0	6.3	V
Load Regulation	ΔV_o	$T_J = 25^\circ\text{C}$, $I_o = 1\text{mA} \sim 100\text{mA}$		16	80	mV
		$T_J = 25^\circ\text{C}$, $I_o = 1\text{mA} \sim 40\text{mA}$		9	40	mV
Line Regulation	ΔV_o	$T_J = 25^\circ\text{C}$, $8\text{V} \leq V_i \leq 20\text{V}$		35	175	mV
		$T_J = 25^\circ\text{C}$, $9\text{V} \leq V_i \leq 20\text{V}$		29	125	mV
Quiescent Current	I_q	$T_J = 25^\circ\text{C}$		3.9	6.0	mA
Quiescent current Change	ΔI_q	$T_J = 0 \sim 125^\circ\text{C}$, $9\text{V} \leq V_i \leq 20\text{V}$			1.5	mA
		$T_J = 0 \sim 125^\circ\text{C}$, $1\text{mA} \leq I_o \leq 40\text{mA}$			0.1	mA
Output Noise Voltage	V_N	$T_J = 25^\circ\text{C}$, $10\text{Hz} \leq f \leq 100\text{KHz}$		16		μV
Ripple Rejection	RR	$T_J = 0 \sim 125^\circ\text{C}$, $9\text{V} \leq V_i \leq 19\text{V}$, $f = 120\text{Hz}$	40	48		dB
Dropout Voltage	V_D	$T_J = 25^\circ\text{C}$		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



单击下面可查看定价，库存，交付和生命周期等信息

[>>DIOS\(迪恩思\)](#)