



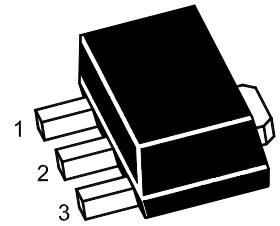
PJ78L08SQ

3-Terminal Voltage Regulator

Features

- Input voltage: up to 30V
- Output voltage: 8V
- Output current up to 100 mA, internal thermal overload protection and short-circuit current limiting.

SOT-89



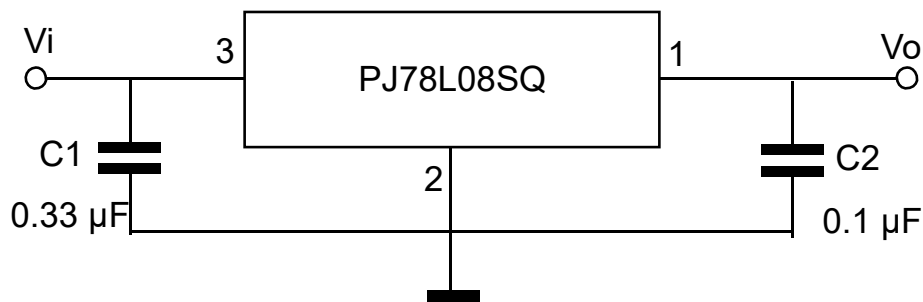
1. VOUT 2. GND 3. VIN

Marking Code : 78L08

Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Input Voltage	V_I	30	V
Output Current	I_O	100	mA
Maximum Power Dissipation	P_D	500	mW
Junction Temperature	T_J	150	°C
Operating Temperature Range	T_{OPR}	-40 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C





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3-Terminal Voltage Regulator

Electrical Characteristics

$V_I=14V$, $I_O=40mA$, $0^{\circ}C \leq T_J \leq 125^{\circ}C$, $C_I=0.33\mu F$, $C_O=0.1\mu F$, unless otherwise specified.

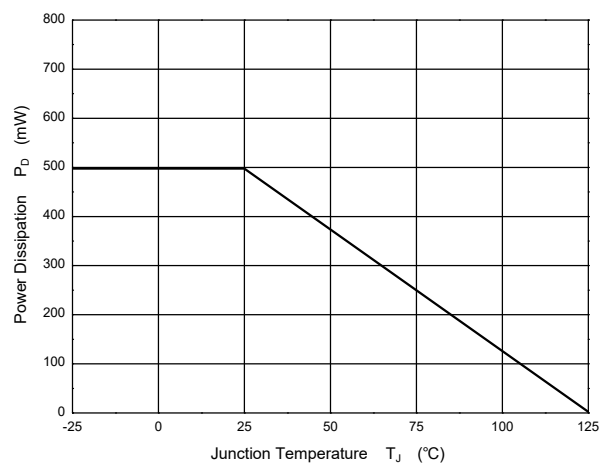
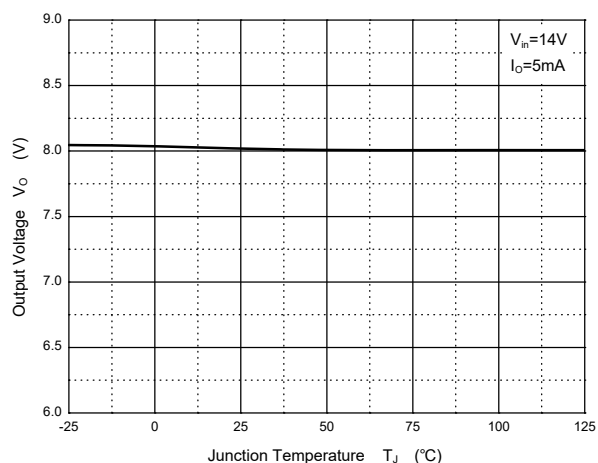
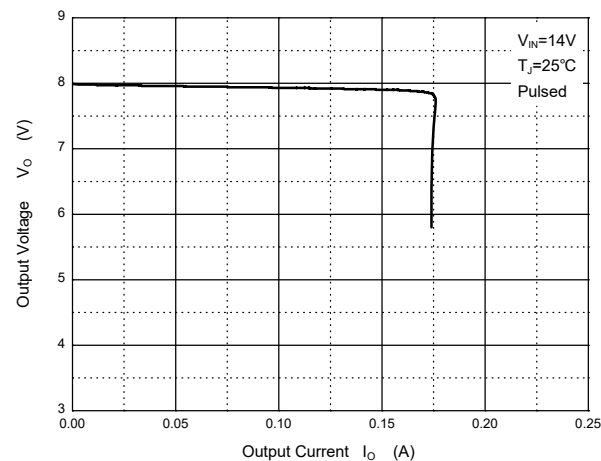
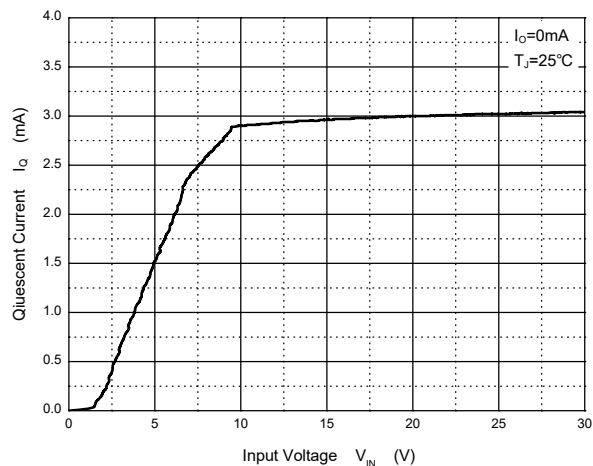
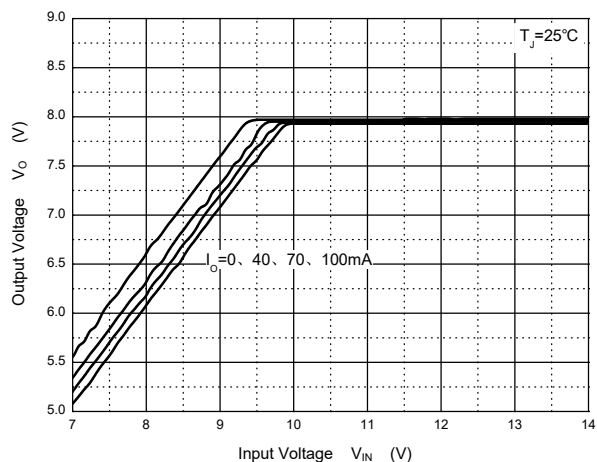
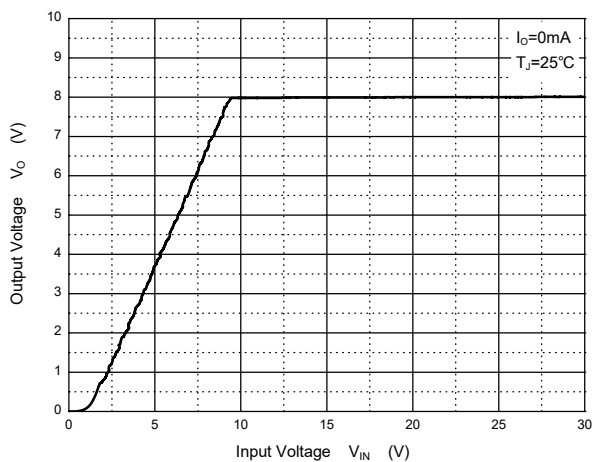
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Output Voltage	V_O	$T_J=25^{\circ}C$	7.70	8.0	8.30	V
		$I_O=1mA$ to 40mA, $V_I=10.5V$ to 23V	7.60	8.0	8.40	V
		$I_O=1mA$ to 70mA	7.60	8.0	8.40	V
Line Regulation	ΔV_O	$V_I=10.5V$ to 23V, $T_J=25^{\circ}C$	--	--	175	mV
		$V_I=11V$ to 23V, $T_J=25^{\circ}C$	--	--	125	mV
Load Regulation	ΔV_O	$I_O=1mA$ to 100mA, $T_J=25^{\circ}C$	--	--	80	mV
		$I_O=1mA$ to 70 mA, $T_J=25^{\circ}C$	--	--	40	mV
Ripple Rejection	RR	$V_I=11V$ to 23V, $f=120Hz$, $T_J=25^{\circ}C$	36	45	--	dB
Dropout Voltage	V_D	$T_J=25^{\circ}C$	--	1.7	--	V
Quiescent Current	I_Q		--	--	5.5	mA
Quiescent Current Change	ΔI_Q	$V_I=11V$ to 23V	--	--	1.5	mA
		$I_O=1mA$ to 40mA	--	--	0.1	mA
Output Noise Voltage	V_N	$10Hz \leq f \leq 100KHz$	--	49	--	μV



PJ78L08SQ

3-Terminal Voltage Regulator

Typical Characteristic Curves





PJ78L08SQ

3-Terminal Voltage Regulator

Package Outline

SOT-89

Dimensions in mm



Ordering Information

Device	Package	Shipping
PJ78L08SQ	SOT-89	1,000PCS/Reel&7inches
		3,000PCS/Reel&13inches

单击下面可查看定价，库存，交付和生命周期等信息

[>>PJSEMI\(平晶微\)](#)