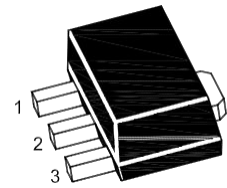


3-Terminal Voltage Regulator

Features

- Input voltage: up to 35V
- Output: 15V
- Output current up to 100 mA, internal thermal overload protection and short-circuit limiting.



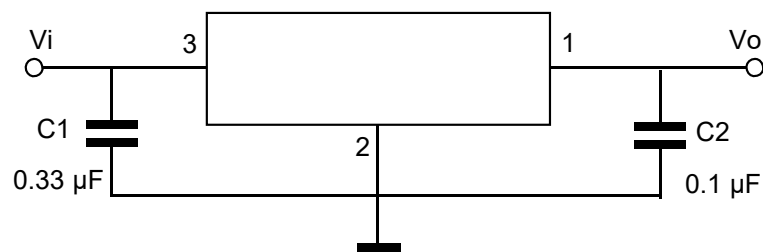
1. OUT 2. GND 3. IN

SOT-89

Maximum Ratings

Ratings at $T_A = 25^\circ\text{C}$ ambient temperature unless otherwise specified.

Parameter	Symbols	Value	Units
Input Voltage	V_I	35	V
Output Current	I_O	100	mA
Junction Temperature	T_J	150	$^\circ\text{C}$
Operating Temperature Range	T_{OPR}	-40~125	$^\circ\text{C}$
Power Dissipation	P_D	500	mW
Storage Temperature Range	T_{STG}	-55~150	$^\circ\text{C}$

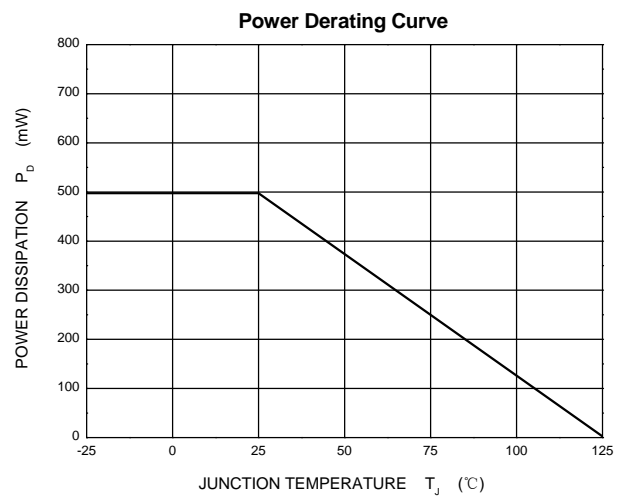
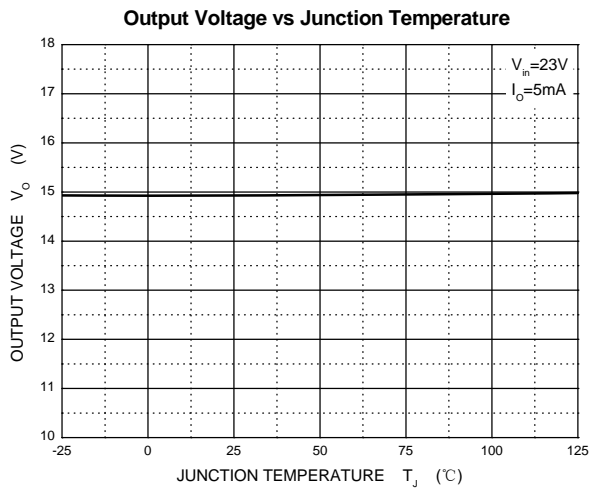
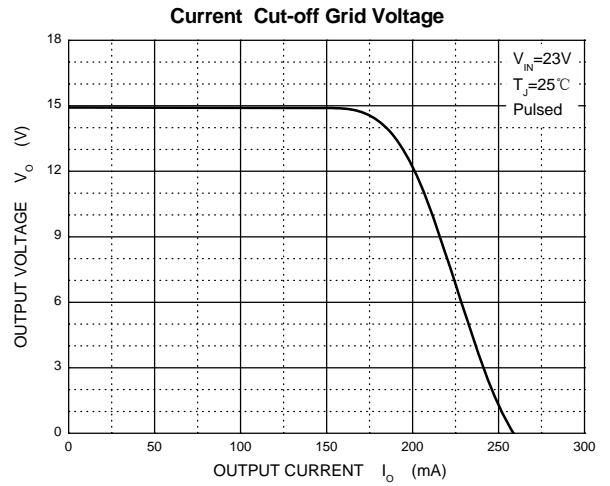
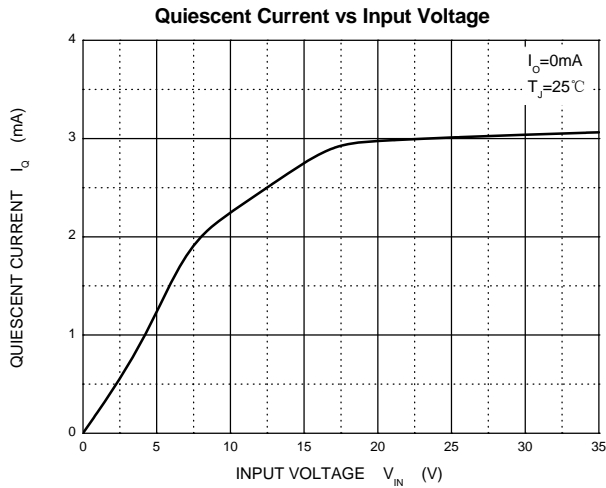
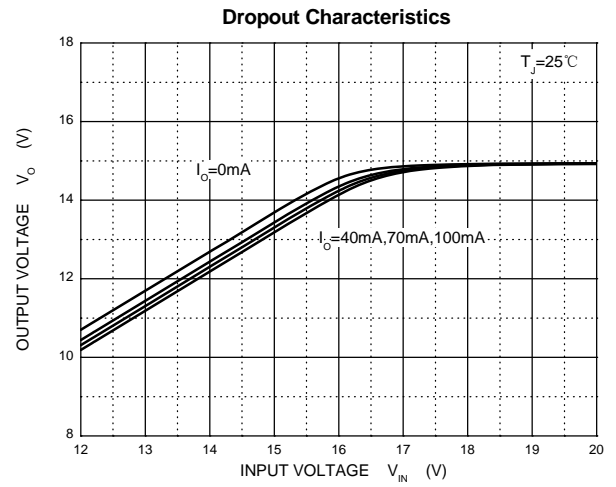
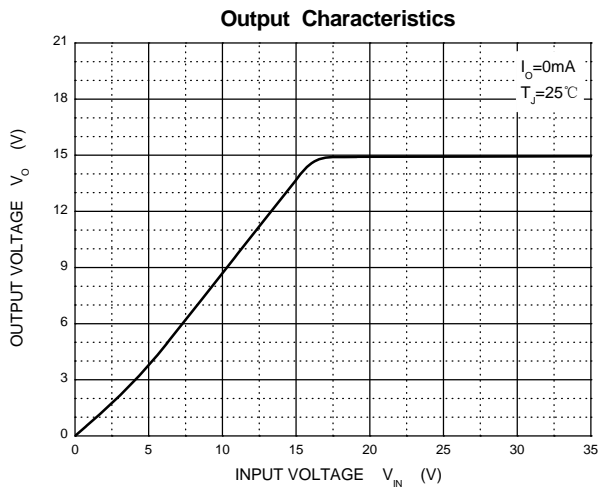


Electrical Characteristic

 Ratings at $T_A = 25^\circ\text{C}$ ambient temperature, $0^\circ\text{C} \leq T_J \leq 125^\circ\text{C}$ $V_I = 23\text{V}$, $I_O = 40\text{mA}$, $C_i = 0.33\mu\text{F}$, $C_o = 0.1\mu\text{F}$, unless otherwise specified.

Parameter	Symbols	Test Conditions	Min	Typ	Max	Unit
Output Voltage	V_O	$T_J = 25^\circ\text{C}$	14.4	15	15.6	V
		$I_O = 1\text{mA to } 40\text{mA}$ $V_I = 17.5\text{V to } 30\text{V}$	14.25	15	15.75	V
		$I_O = 1\text{mA to } 70\text{mA}$ $V_I = 23\text{V}$	14.25	15	15.75	V
Line Regulation	ΔV_O	$V_I = 17.5\text{V to } 30\text{V}$ $T_J = 25^\circ\text{C}$			150	mV
		$V_I = 20\text{V to } 30\text{V}$ $T_J = 25^\circ\text{C}$			75	mV
Load Regulation	ΔV_O	$I_O = 1\text{mA to } 100\text{mA}$, $T_J = 25^\circ\text{C}$			150	mV
		$I_O = 1\text{mA to } 70\text{mA}$, $T_J = 25^\circ\text{C}$			150	mV
Ripple Rejection	RR	$V_I = 18.5\text{V to } 28.5\text{V}$, $T_J = 25^\circ\text{C}$ $f = 120\text{Hz}$	34	39		dB
Output Noise Voltage	V_N	$f = 10\text{Hz} \sim 100\text{KHz}$		90		μV
Dropout Voltage	V_D	$T_J = 25^\circ\text{C}$		1.7		V
Quiescent Current	I_Q	$T_J = 25^\circ\text{C}$		4.6	6.5	mA
Quiescent Current Change	ΔI_Q	$V_I = 20\text{V to } 30\text{V}$			1.5	mA
		$I_O = 1\text{mA to } 40\text{mA}$			0.1	mA

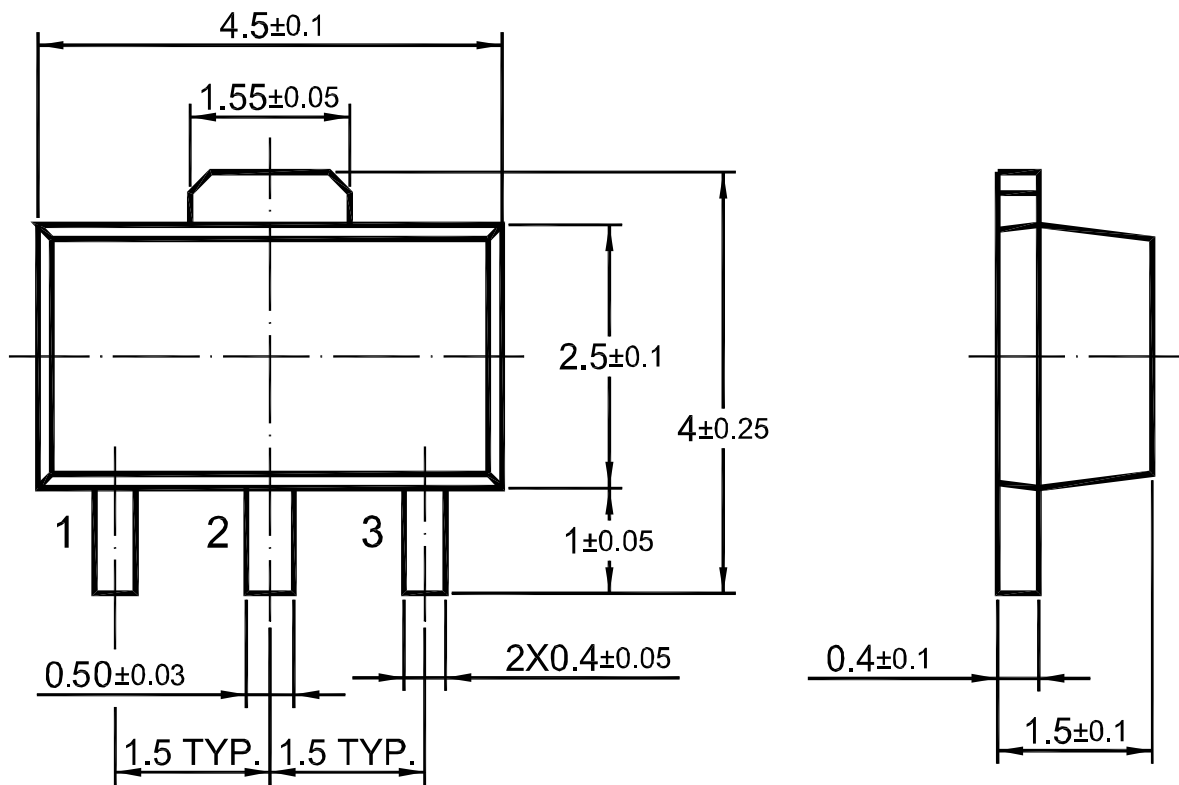
Ratings and Characteristic Curves



Package Outline

SOT-89

Dimensions in mm



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