

**/ Descriptions**

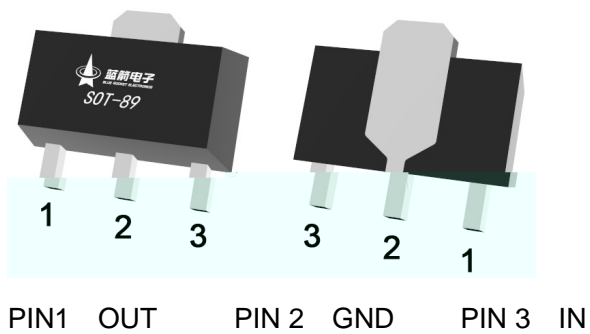
SOT-89

Voltage Regulator in a SOT-89 Plastic Package.

100mA ,

3-Terminal regulators ,output current up to 100 mA, internal thermal overload protection and short-circuit limiting, HF Product.

Voltage Regulator.



**/ Marking**

See Marking Instructions.

**/ Absolute Maximum Ratings(Ta=25 )**

Parameter	Symbol	Rating	Unit
Input voltage	$V_I$	36	V
Output current	$I_O$	100	mA
Operating virtual Junction temperature	$T_J$	0 125	
Power Dissipation	$P_D$	500	mW
Storage temperature range	$T_{stg}$	-65 150	
Thermal resistance junction-ambient	$R_{JA}$	200	/W

**/ Electrical Characteristics(Ta=25  $V_I=19V, I_O=40mA$  unless otherwise specified)**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	$V_O$	$I_O = 40mA$ $T_J=25$	11.5	12	12.6	V
		$I_O=1mA$ to 40mA $V_I=14.5V$ to 27V	11.4		12.6	V
		$I_O=1mA$ to 70mA $V_I=19V$	11.4		12.6	V
Input regulation	$V_O$	$V_I=14.5V$ to 27V $T_J=25$		24	250	mV
		$V_I=16V$ to 27V $T_J=25$		12	200	mV
Output regulation	$V_O$	$I_O=1mA$ to 100mA $T_J=25$		36	100	mV
		$I_O=1mA$ to 40 mA $T_J=25$		24	50	mV
Ripple rejection	RR	$V_I=15V$ to 25V $f=120Hz$ $T_J=25$	36	42		dB
Output noise voltage	$V_N$	$f=10Hz\sim 100KHz$ $T_J=25$		80		$\mu V$
Dropout voltage	$V_D$	$T_J=25$		2		V
Bias current	$I_Q$	$T_J=25$		2.0	5.5	mA
Bias current change	$I_Q$	$V_I=16V$ to 27V			1.5	mA
		$I_O=1mA$ to 40mA			0.1	mA

/ Electrical Characteristic Curve

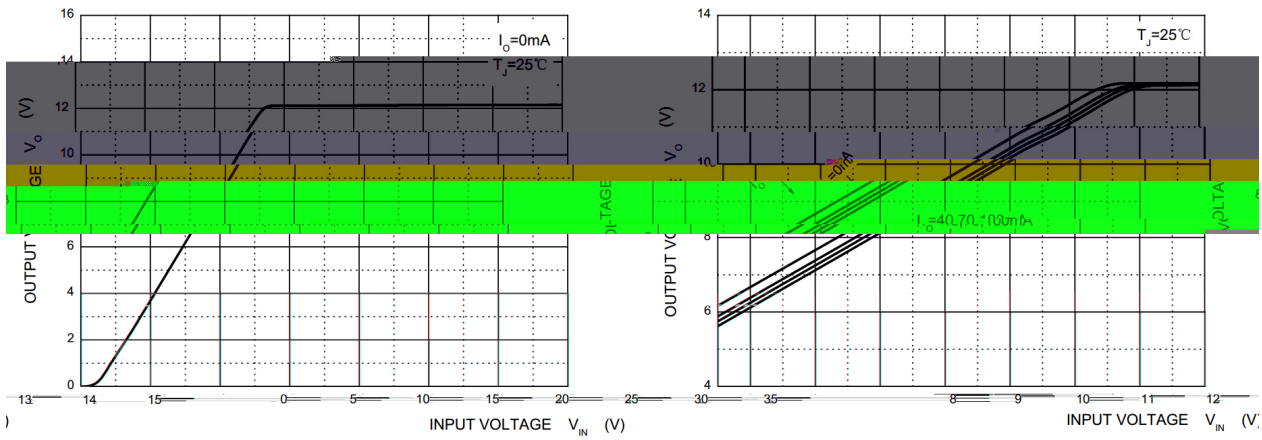


Figure 2. Output Characteristics

Figure 3. Output Characteristics

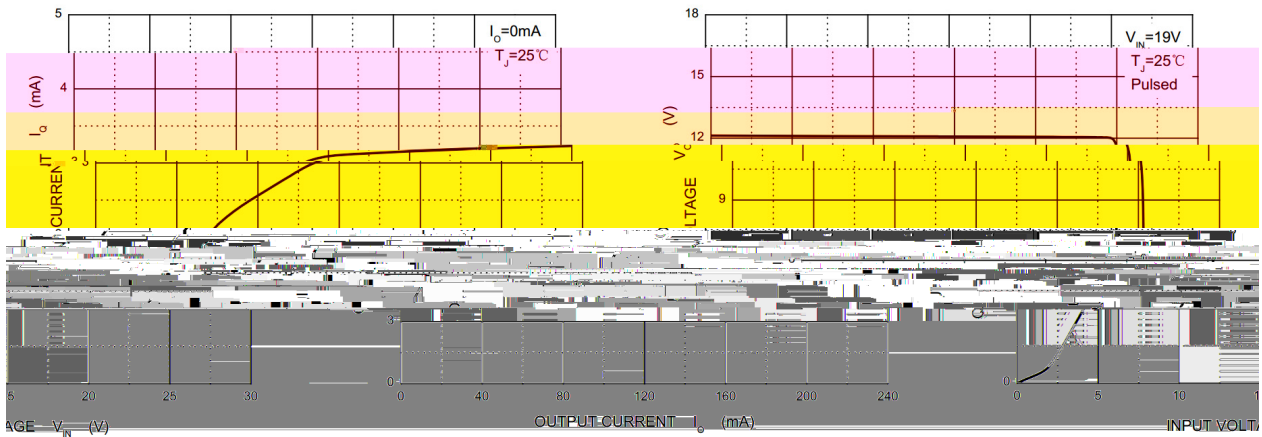


Figure 4. Current Cut-off Grid Voltage

Figure 4. Current Cut-off Grid Voltage

Figure 3. Quiet

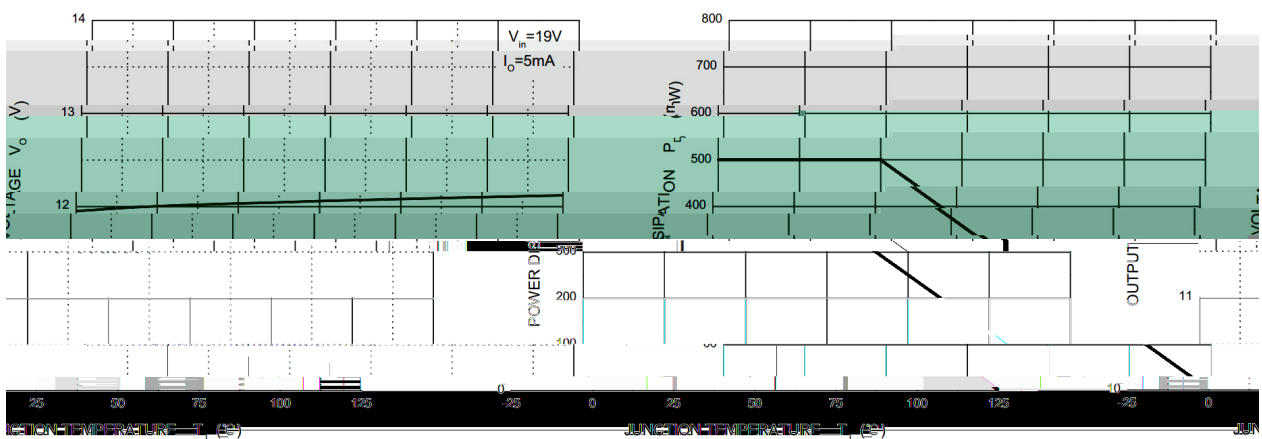


Figure 5. Output Voltage vs Junction Temperature

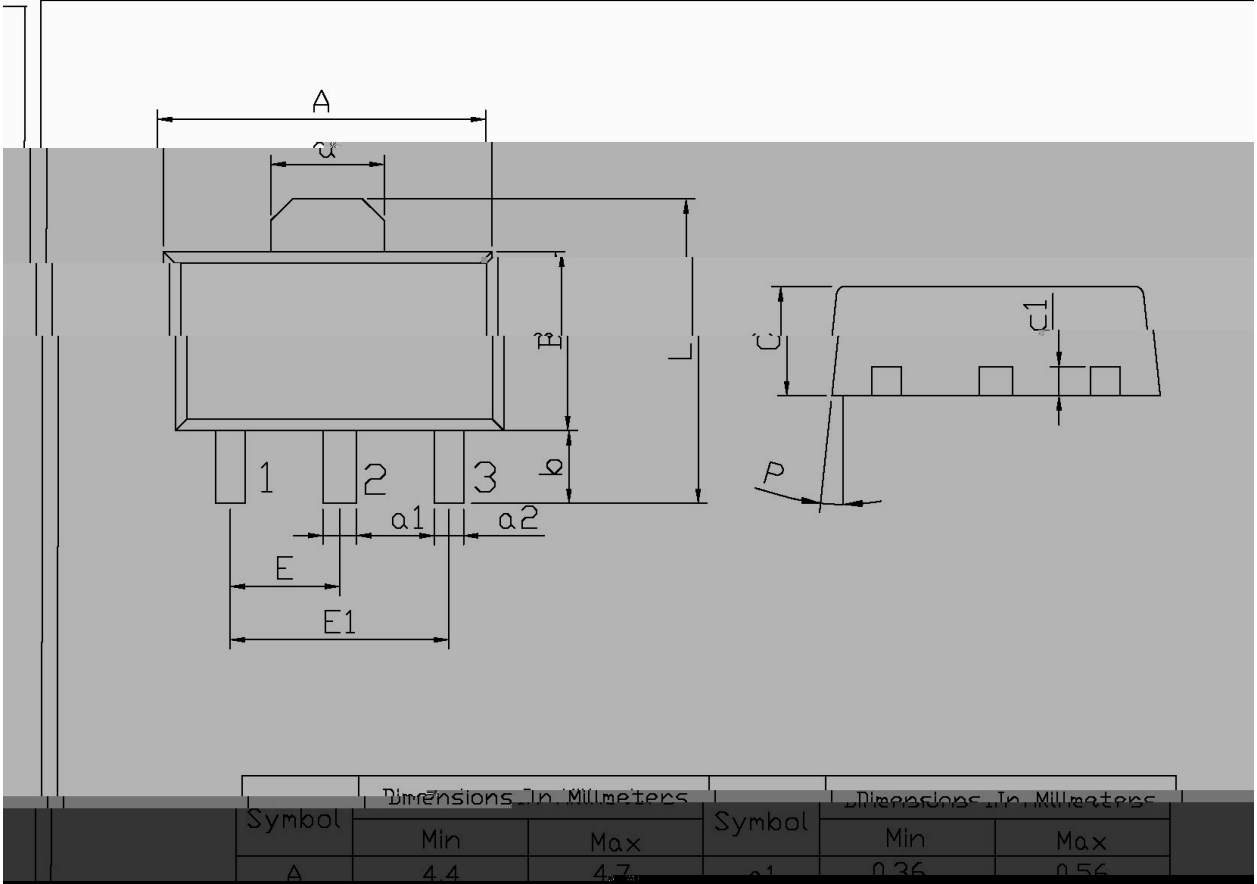
Figure 6. Power Derating Curve

Figure 5. Output

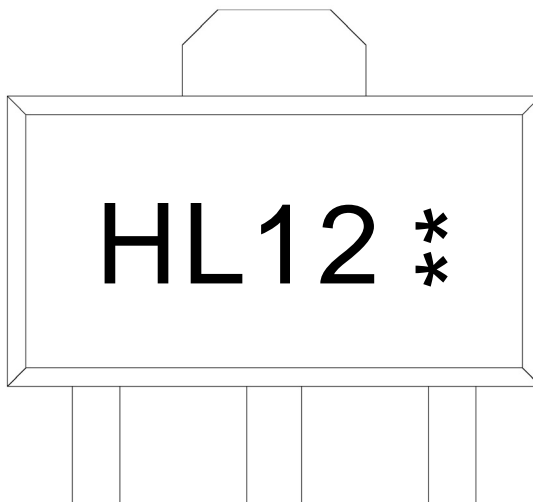
/ Package Dimensions

78L12AT-89

单位: mm



/ Marking Instructions



H

L12

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Note:

H: Company Code

L12: Product Type Code

\*\* : Lot No. Code, code change with Lot No

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Note:

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