

/ Descriptions

Voltage Regulator in a SOT-89 Plastic Package.

/ Features

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

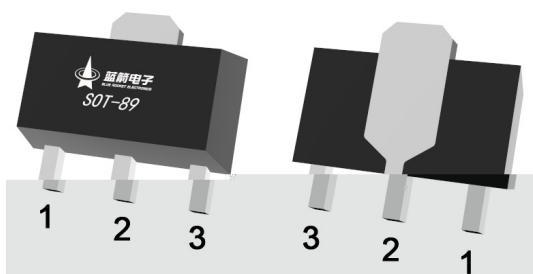
/ Applications

Voltage Regulator.

/ / Equivalent Circuit or Application Circuit



/ Pinning



PIN 1 GND PIN 2 IN PIN3 OUT

/ Marking

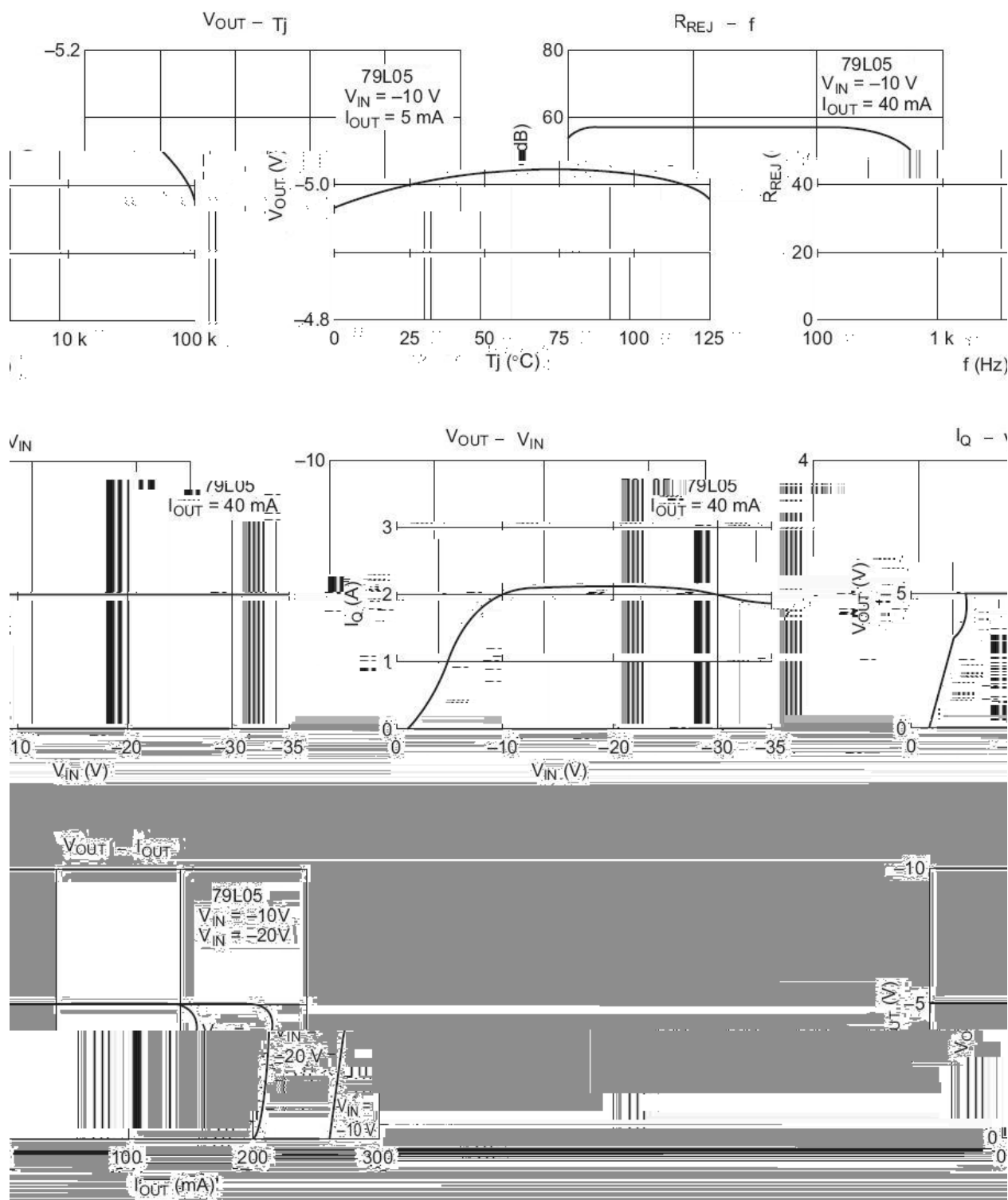
Marking	HN05 **
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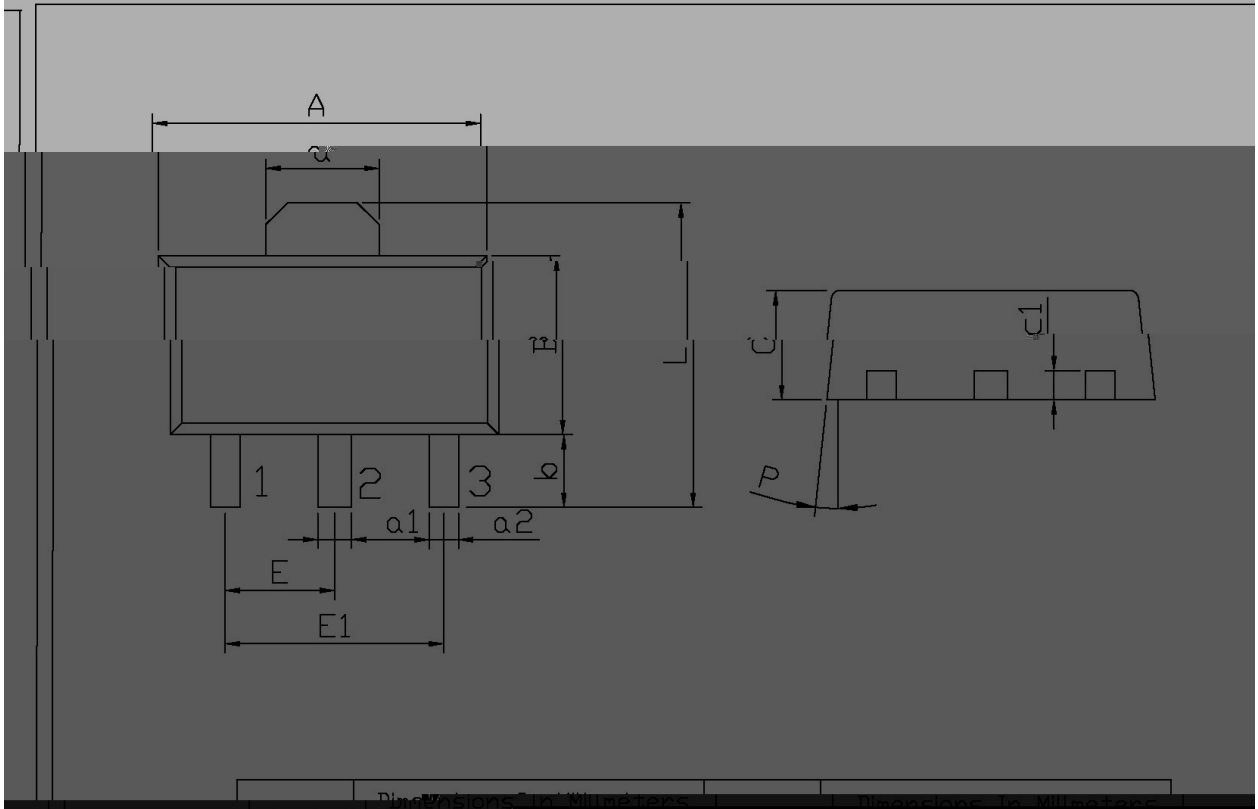
Parameter	Symbol	Rating	Unit
Input voltage	V_I	-35	V
Output current	I_O	100	mA
Junction Temperature	T_J	150	
Operating Temperature Range	T_{OPR}	-40 125	
Storage temperature range	T_{stg}	-65 150	
Power Dissipation	P_D	500	mW

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	$I_O=40mA$ $T_J=25$	-4.80	-5.0	-5.2	V
		-7.5V V_{in} -20V 5mA I_{out} 100mA	-4.75	-5.0	-5.25	
Line Regulation	REGline	-7.5V V_{in} -20V $I_O=40mA$ $T_J=25$		50	150	mV
Load Regulation	REGload	5mA I_{out} 100mA $T_J=25$		20	60	
		5mA I_{out} 40mA $T_J=25$		10	30	
Bias current	I_Q	$I_{out}=0$ $T_J=25$		3	6	mA
Bias current change	I_Q	-8V V_{in}				

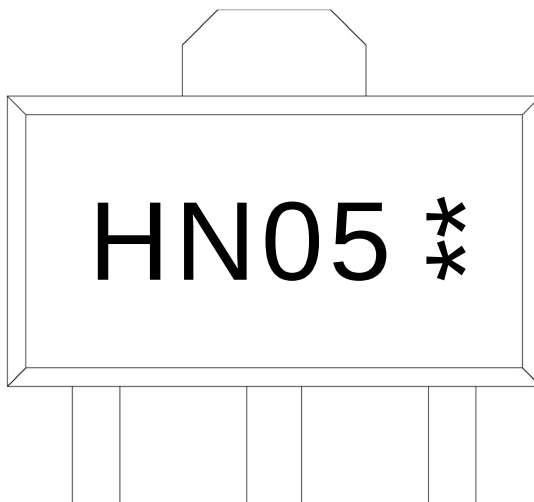
/ Electrical Characteristic Curve



單位: mm



/ Marking Instructions



H

N05

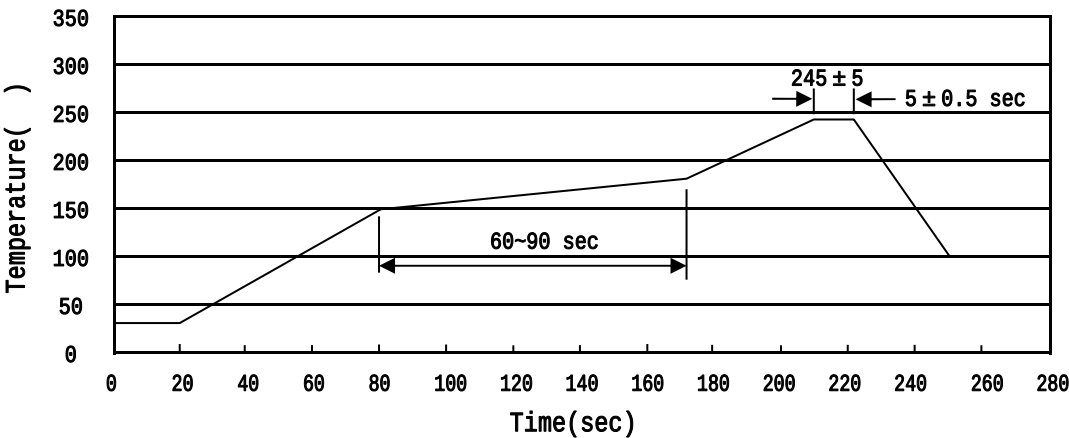
Note:

H: Company Code

N05: Product Type Code

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

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Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245 5

5 0.5sec;

2.Peak Temp.:245 5 , Duration:5 0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-89	1,000	7	7,000	6	42,000	7 ×12	180×120×180	390×385×205

/ Notices