

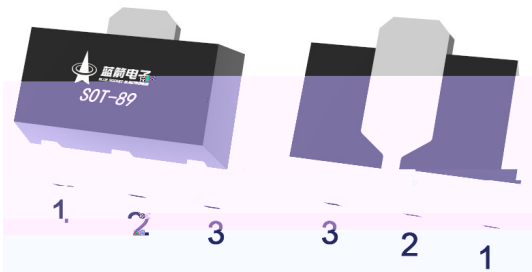
SOT-89

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.



PIN 1 GND PIN 2 IN PIN3 OUT

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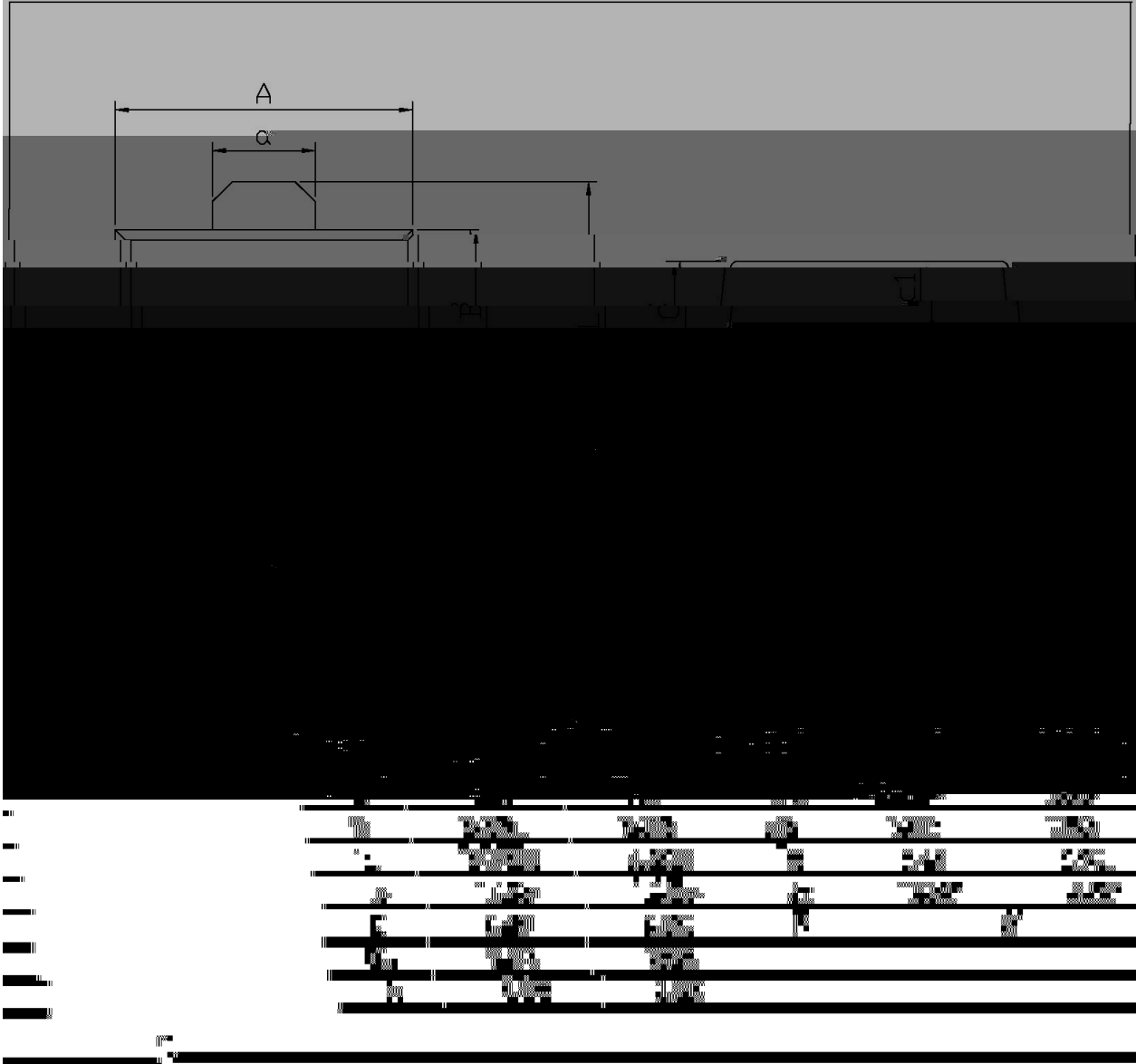
Parameter	Symbol	Rating	Unit
Input voltage	V_i	-35	V
Output current	I_o	100	mA
Operating virtual Junction temperature	T_J	-40 125	
Power Dissipation	P_D	500	mW
Storage temperature range	T_{stg}	-65 150	

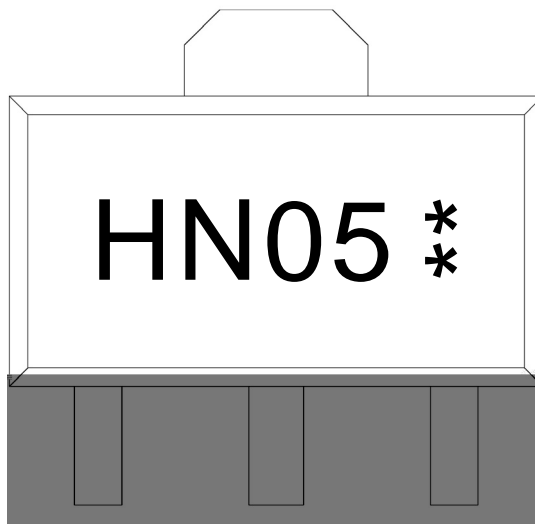
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_o	$I_o=40mA$ $T_j=25$	-4.80	-5.0	-5.2	V
		-7.5V V_{in} -20V 5mA I_{out} 100mA	-4.75	-5.0	-5.25	
Line Regulation	REGline	-7.5V V_{in} -20V $I_o=40mA$ $T_j=25$		50	150	mV
Load Regulation	REGload	5mA I_{out} 100mA $T_j=25$		20	60	
		5mA 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} -20V			1.5	
		1mA I_{out} 40mA			0.1	
Output noise voltage	V_N	10Hz f 100KHz $T_j=25$		40		μV
Ripple rejection	RR	-8V V_{in} -18V $f=120Hz,$	41	49		dB
Dropout voltage	V_D	$T_j=25$		1.7		V



SOT-89

单位: mm





H

N05

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Note:

H: Company Code

N05: Product Type Code

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

Temperature Profile for IR Reflow Soldering(Pb-Free)

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. |

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