

Rev.H Jan.-2023

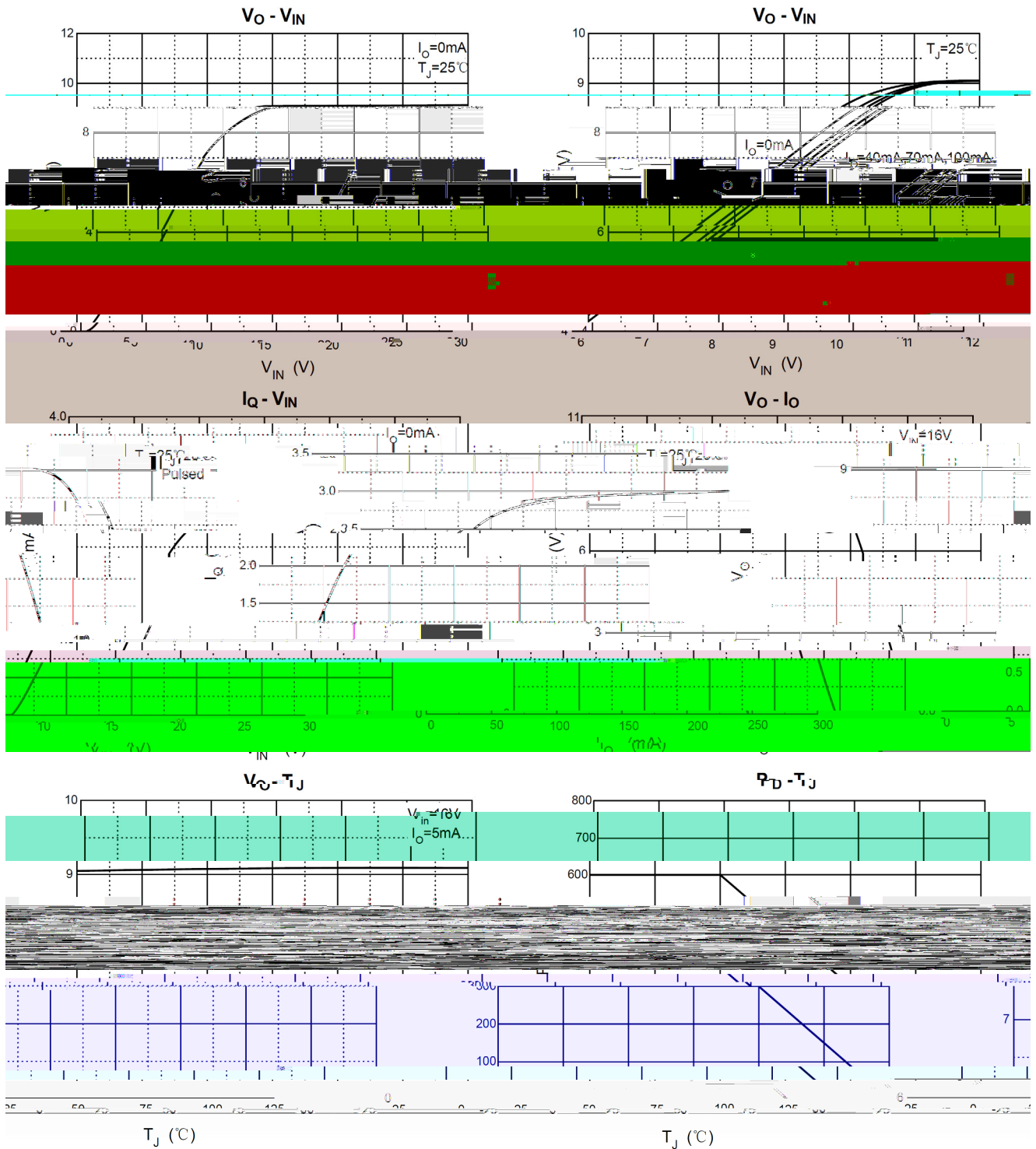
SOT-89

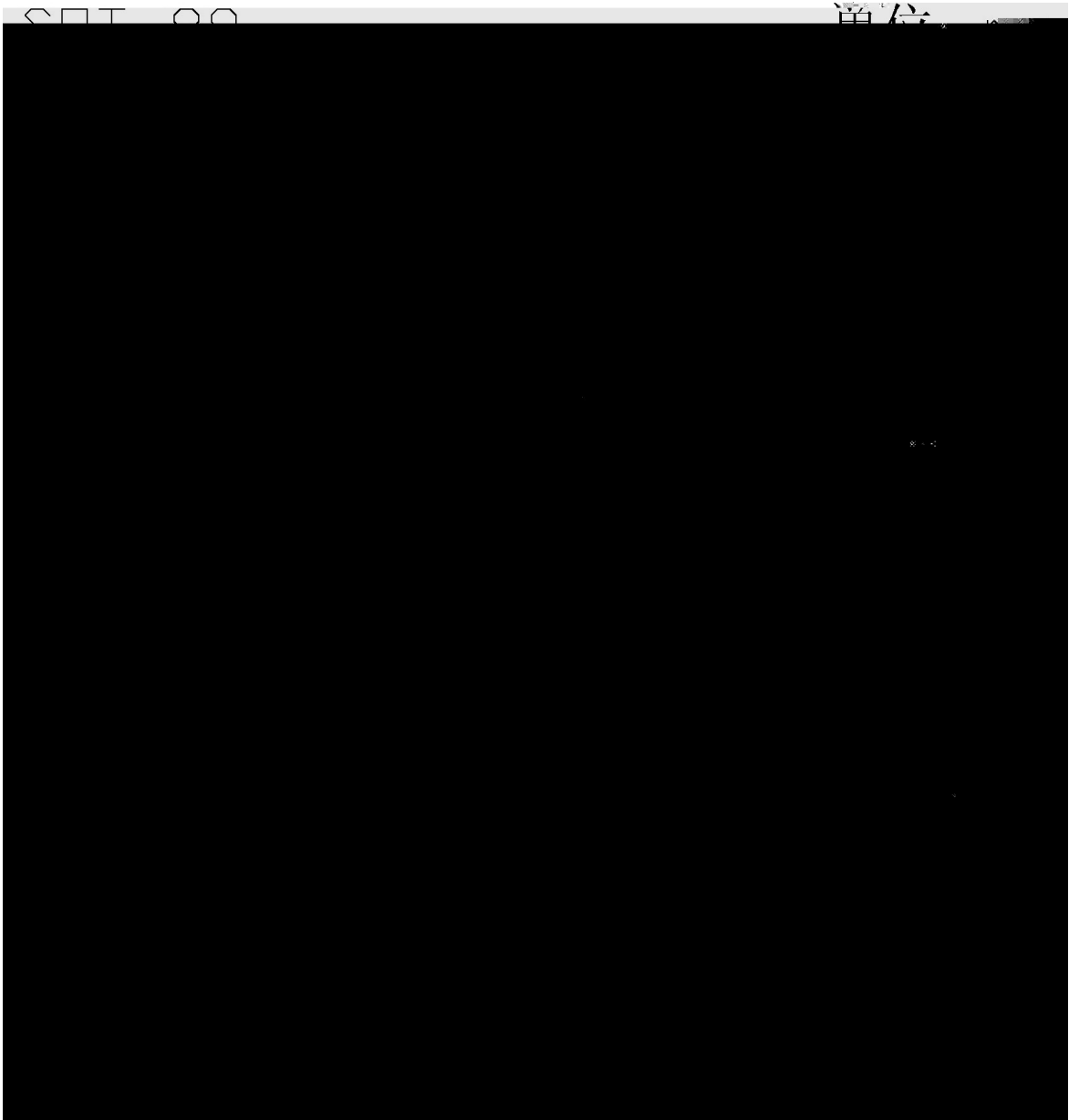
Voltage Regulator in a SOT-89 Plastic Package.

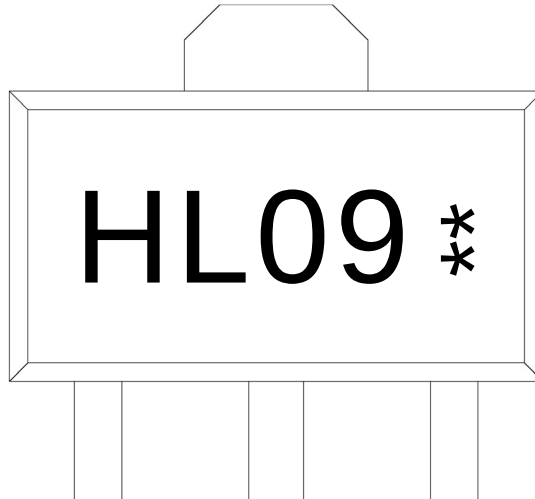
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Parameter	Symbol	Rating	Unit
Input voltage	V_I	30	V
Output current	I_O	100	mA
Operating virtual Junction temperature	T_J	0 125	
Power Dissipation	P_D	500	mW
Storage temperature range	T_{stg}	-65 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	$I_O=40mA$ $T_J=25$	8.64	9	9.36	V
		$I_O=1mA$ to 40mA $V_I=11.5V$ to 23V	8.55	9	9.45	V
		$I_O=1mA$ to 70mA $V_I=15V$	8.55	9	9.45	V
Input regulation	V_O	$V_I=11.5V$ to 23V $T_J=25$			225	mV
		$V_I=12V$ to 23V $T_J=25$			150	mV
Ripple rejection	RR	$V_I=12V$ to 23V $f=120Hz$ $T_J=25$	37	44		dB
Output regulation	V_O	$I_O=1mA$ to 100mA $T_J=25$		16	80	mV
		$I_O=1mA$ to 40mA $T_J=25$		9	40	mV
Output noise voltage	V_N	$f=10Hz$ to 100KHz $T_J=25$		70		μV
Dropout voltage	V_D	$T_J=25$		1.7		V
Bias current	I_Q	$T_J=25$			6	mA
		$T_J=125$			5.5	mA
Bias current change	I_Q	$V_I=12V$ to 23V			1.5	mA
		$I_O=1mA$ to 40mA			0.1	mA







H

L09

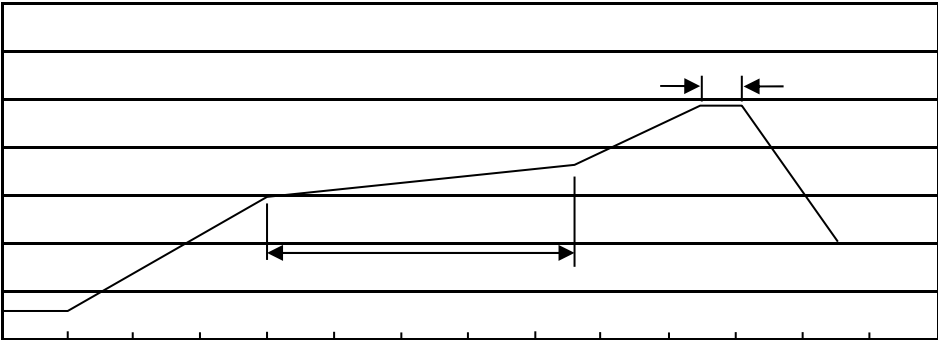
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Note:

H: Company Code

L09: Product Type

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



- 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

/ 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