

/ Descriptions

SOT-89 Voltage Regulator in a SOT-89 Plastic Package.

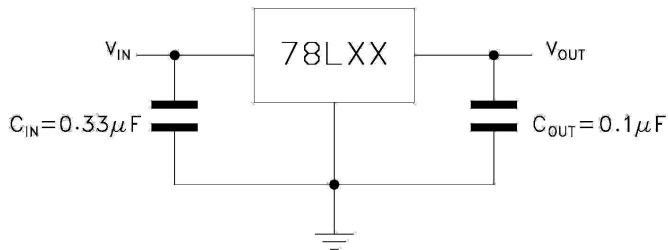
/ Features

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

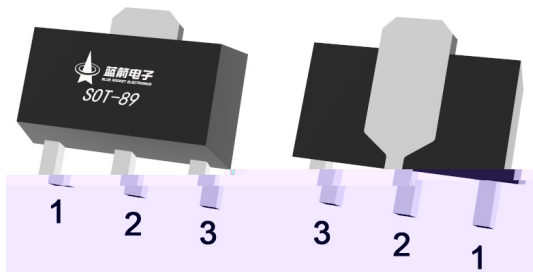
/ Applications

Voltage Regulator.

/ Equivalent Circuit or Application Circuit



/ Pinning



PIN1 OUT PIN 2 GND PIN 3 IN

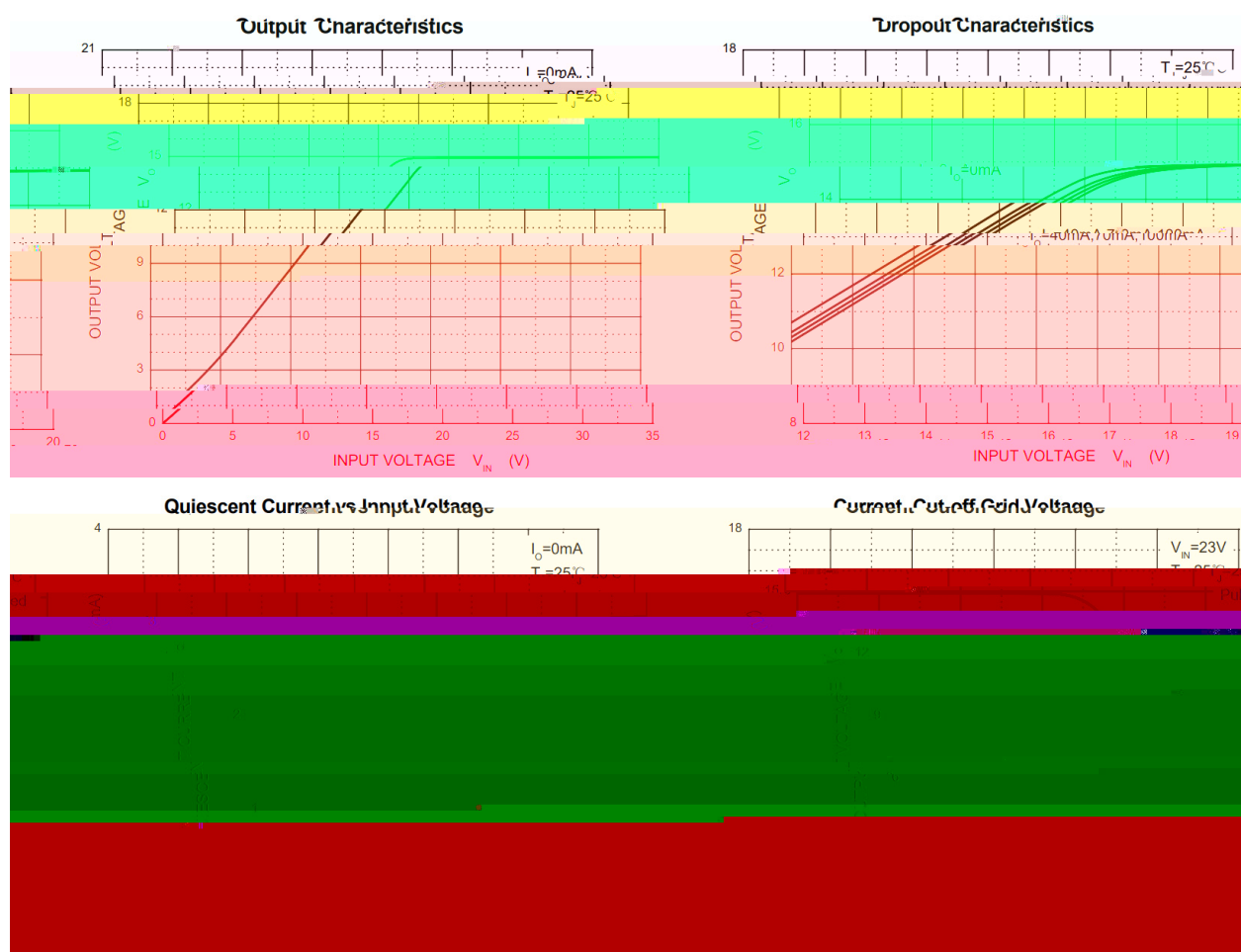
/ Marking

See Marking Instructions.

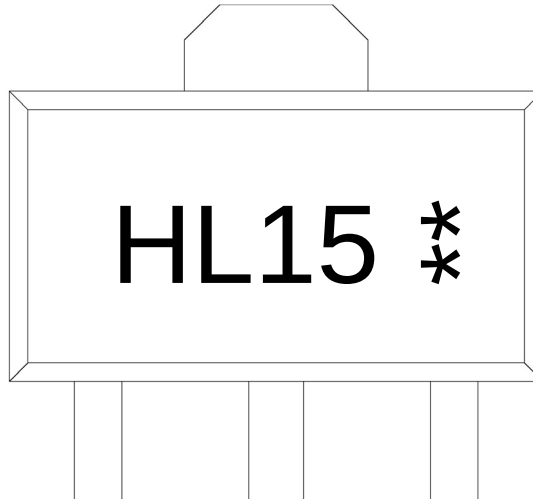
Parameter	Symbol	Rating	Unit	
Input voltage	V_I	35	V	
Output current	I_O	100	mA	
Operating Temperature Range	T_{OPR}	-40 125		
Power Dissipation	P_D	500	mW	
Storage temperature range	T_{stg}	-65 150		

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_O	I_O 40mA $T_j=25$	14.4	15	15.6	V
		$I_O=1mA$ to 40mA $V_I=17.5V$ to 30V	14.25		15.75	V
		$I_O=1mA$ to 70mA $V_I=23V$	14.25		15.75	V
Input regulation	V_O	$V_I=17.5V$ to 30V $T_j=25$			300	mV

/ Electrical Characteristic Curve



/ Marking Instructions



H

L15

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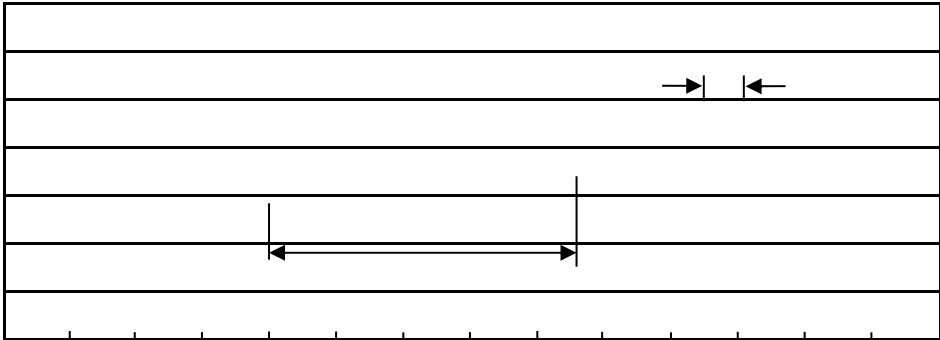
Note:

H: Company Code

L15: Product Type Code

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

() /



- Note:
- 1

150 180

60 90sec;

2

245±5

5±0.5sec;

3

2 10

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

2.Peak Temp.:245±5 , Duration:5±0.5sec.

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