

MMBT3906T

Rev.E Mar.-2016

/ Descriptions

Silicon PNP transistor in a SOT-89 Plastic Package.

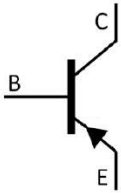
/ Features

High DC Current Gain, Low Collector to Emitter Saturation Voltage.

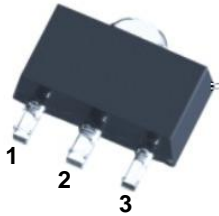
/ Applications

General purpose amplifier and switching.

/ Equivalent Circuit



/ Pinning



PIN1 Base

PIN 2 Collector

PIN 3 Emitter

/ Marking

h_{FE} Range	100 300
Marking	H2A * *

/ Electrical Characteristics(Ta=25)

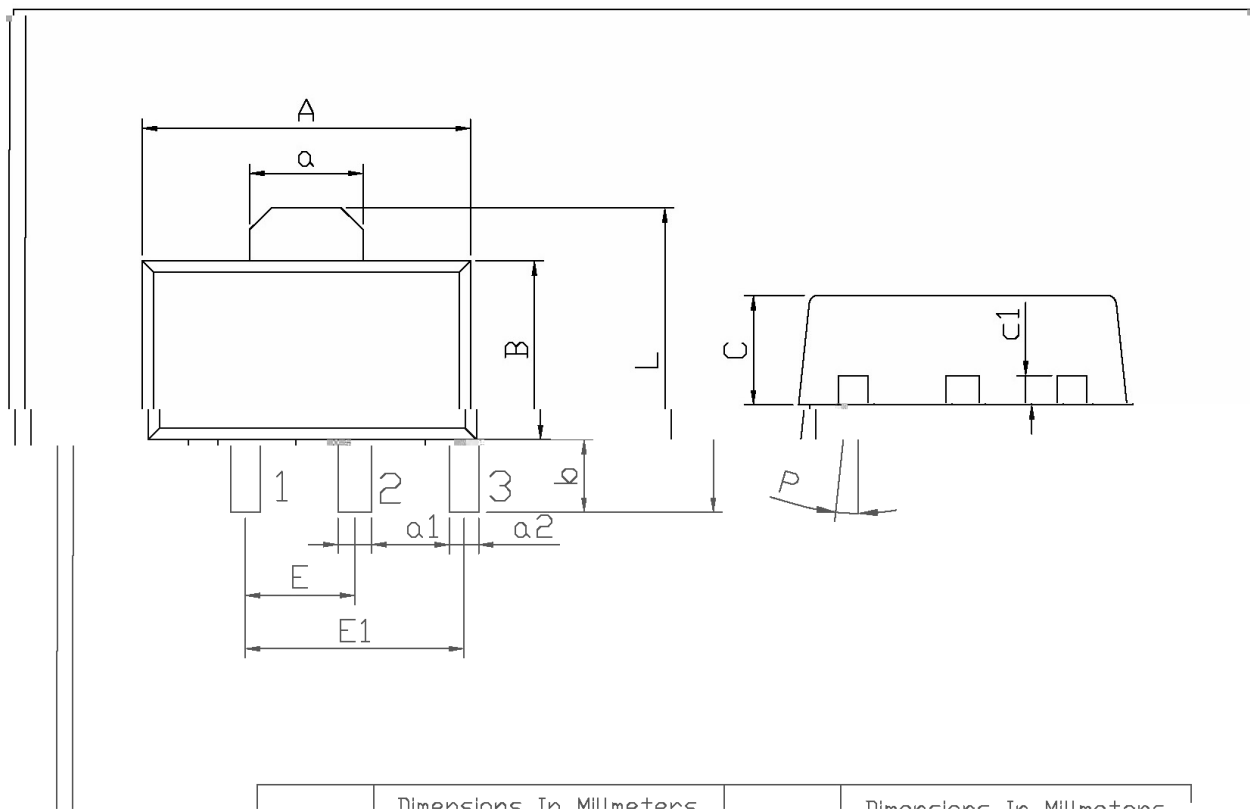
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Transition Frequency	f_T	$I_C=-10mA$ $V_{CE}=-20V$ $f=100MHz$	250			MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-5.0V$ $f=1.0MHz$			4.5	pF
Storage Time	t_{stg}	$V_{CC}=-3.0V$ $I_C=-10mA$ $I_{B1}=-I_{B2}=-1.0mA$			225	ns
Fall Time	t_f	$V_{CC}=-3.0V$ $I_C=-10mA$ $I_{B1}=-I_{B2}=-1.0mA$			75	ns
Delay Time	t_d	$V_{CC}=-3.0V$ $V_{BE}=-0.5V$ $I_C=-10mA$ $I_{B1}=-1.0mA$			35	ns
Rise Time	t_r	$V_{CC}=-3.0V$ $V_{BE}=-0.5V$ $I_C=-10mA$ $I_{B1}=-1.0mA$			35	ns
Input Capacitance	C_{ib}	$V_{EB}=-0.5V$ $f=1.0MHz$			10	pF

/ **Electrical Characteristic Curve**

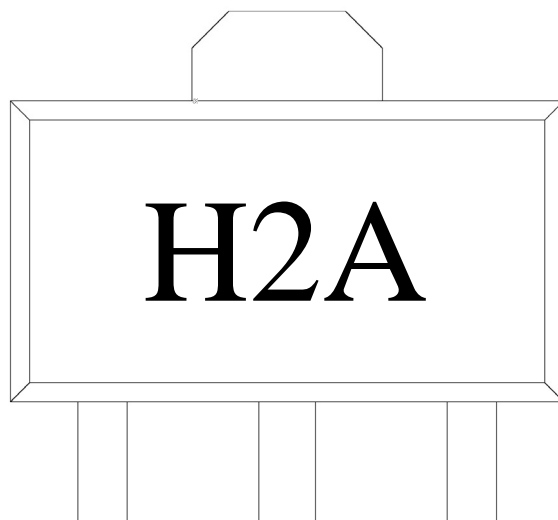
/ Package Dimensions

SOT-89

单位: mm



/ Marking Instructions



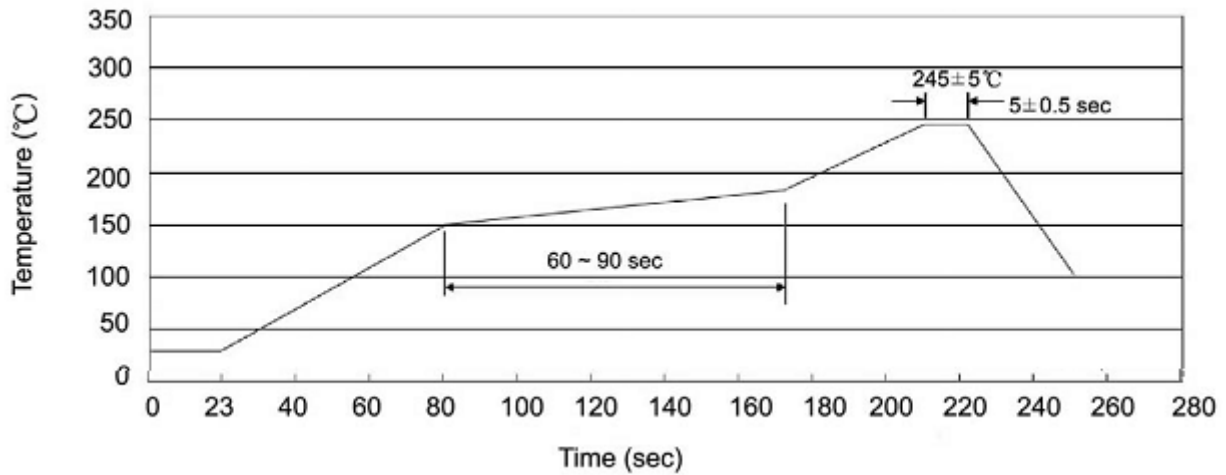
Note:

H: Company Code.

2A: Product Type.

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

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Note:

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|---|-----|-----|----|----------|-----------------------------------------|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , 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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱	盒	箱	

/ Notices