

# MMBTA55

Rev.F Apr.-2017

## / Descriptions

SOT-23          PNP          Silicon PNP transistor in a SOT-23 Plastic Package.

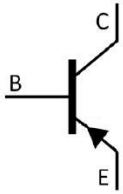
## / Features

MMBTA05  
Complementary to MMBTA05.

## / Applications

Ideal for medium power amplification and switching.

## / Equivalent Circuit



## / Pinning



PIN1 Base          PIN 2 Emitter          PIN 3 Collector

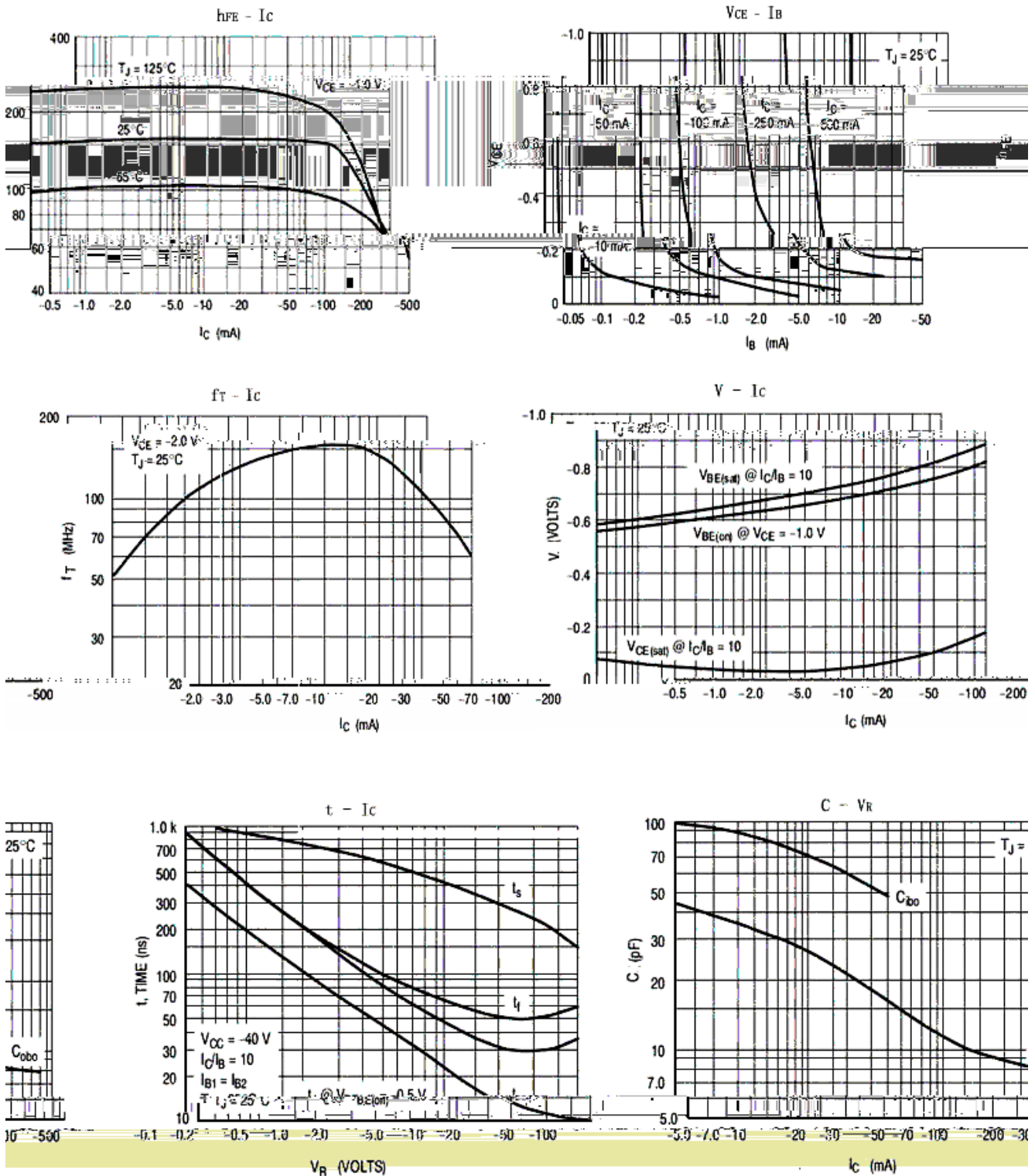
## / $h_{FE}$ Classifications & Marking

$h_{FE}$ Range	100~300
Marking	H2H

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	-60	V
Collector to Emitter Voltage	$V_{CEO}$	-60	V
Emitter to Base Voltage	$V_{EBO}$	-4.0	V
Collector Current	$I_C$	-500	mA
Collector Power Dissipation	$P_D$	300	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	$V_{CBO}$	$I_C = -100\mu A$ $I_E = 0$	-60			V
Collector to Emitter Breakdown Voltage	$V_{CEO}$	$I_C = -1.0mA$ $I_B = 0$	-60			V
Emitter to Base Breakdown Voltage	$V_{EBO}$	$I_E = -100\mu A$ $I_C = 0$	-4.0			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB} = -60V$ $I_E = 0$			-0.1	$\mu A$
Collector-Emitter Cutoff Current	I					

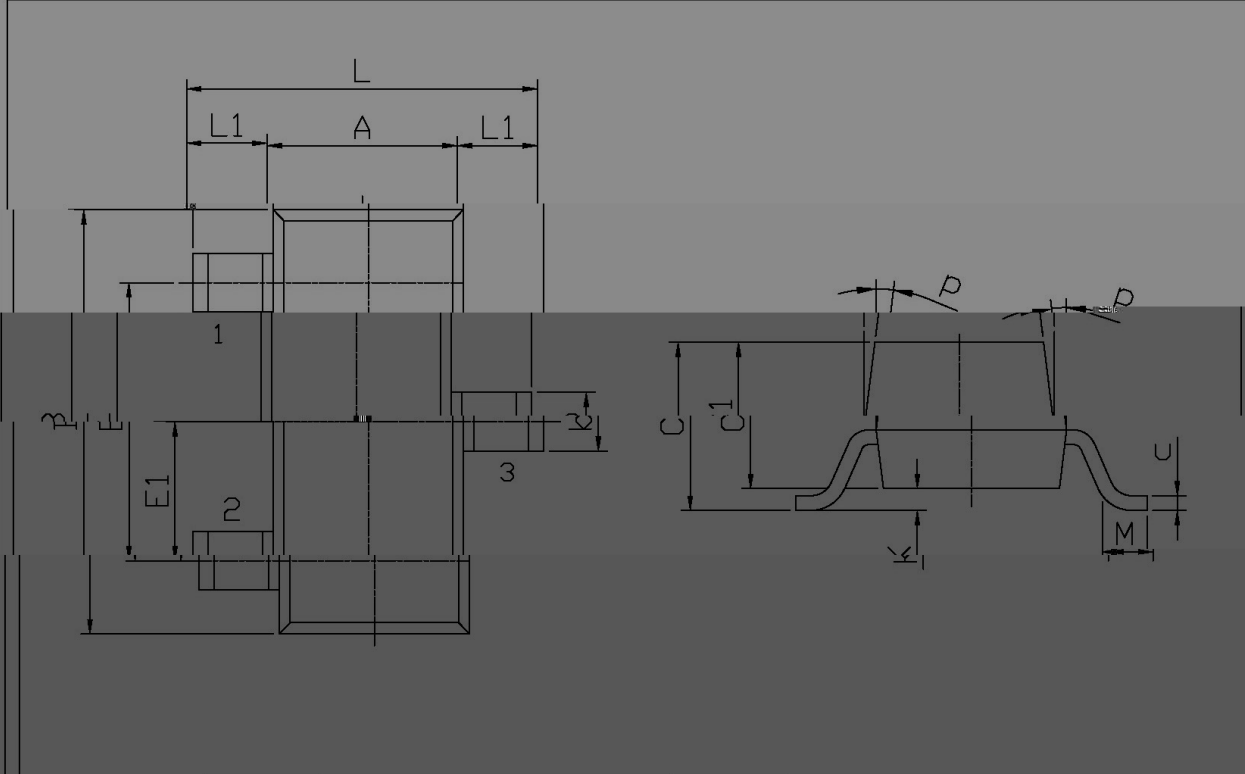
/ Electrical Characteristic Curve



/ Package Dimensions

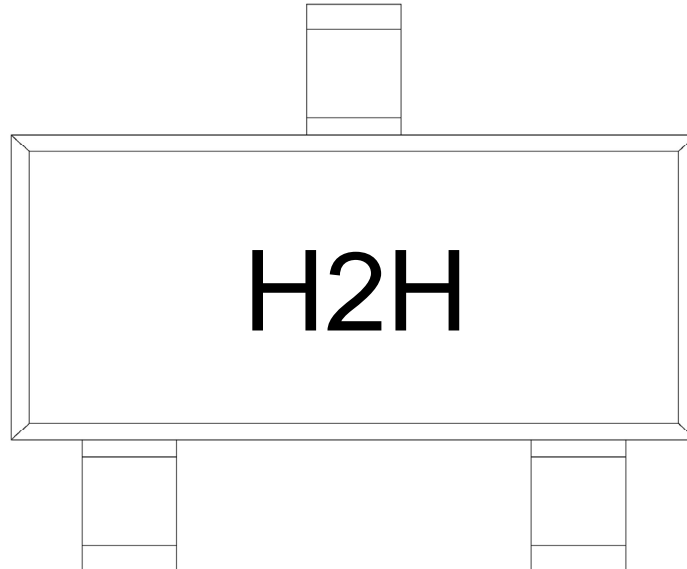
SOT-23

单位: mm



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
L	2.2	2.7	C	1.20	Max
L1	0.45	0.65	C1	0.90	1.20

/ Marking Instructions



H

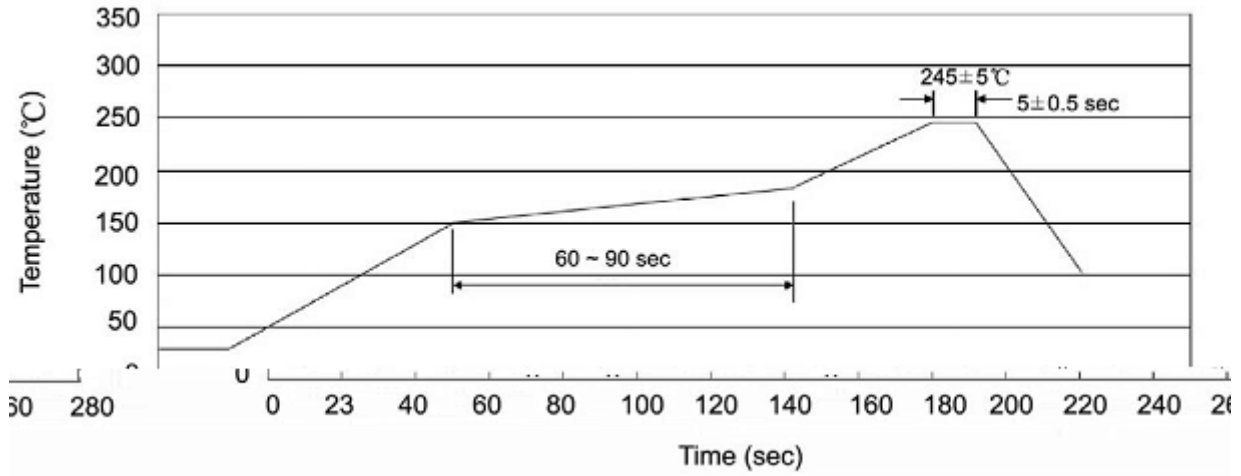
2H

Note:

H            Company Code

2H          Product Type

( ) /



Note:

- |   |       |     |           |        |   |
|---|-------|-----|-----------|--------|---|
| 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	Units					Dimension (unit mm <sup>3</sup> )		
						"		

/ Notices