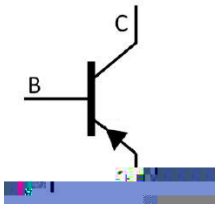


MMBT3906W

Rev.F Dec.-2024

SOT-323

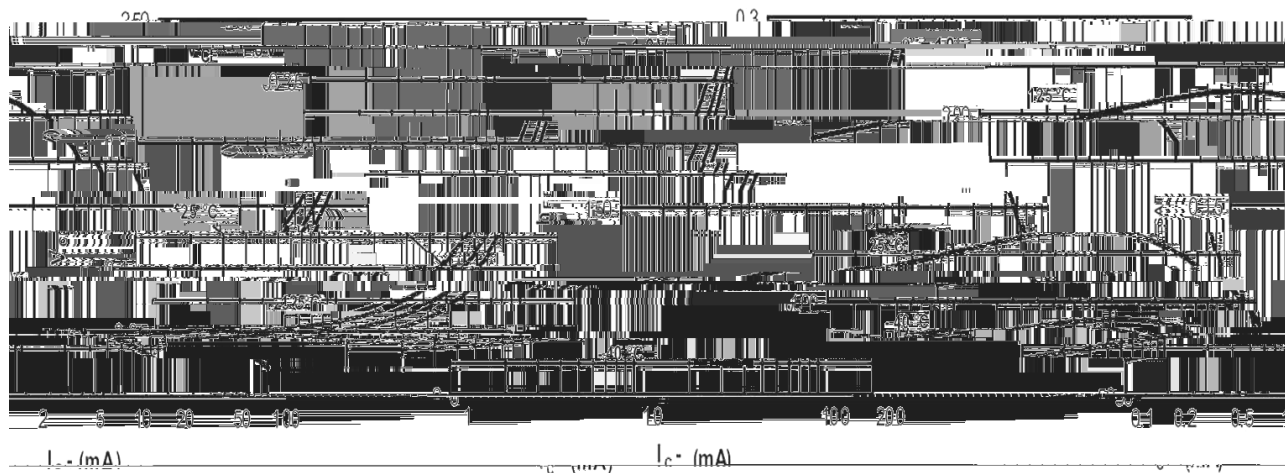
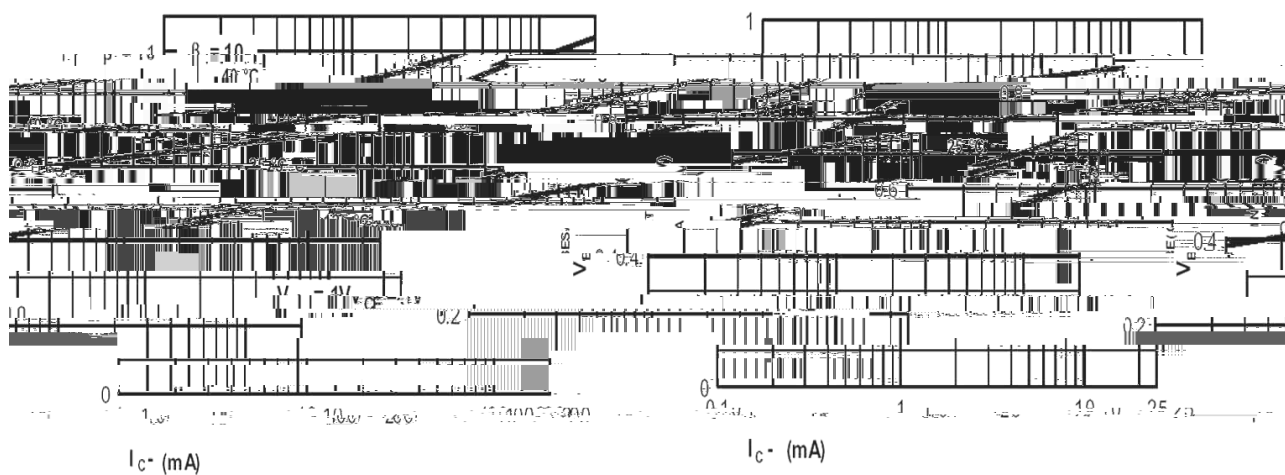
PNP



/ Electrical Characteristics(Ta=25)

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

/ Electrical Characteristic Curve



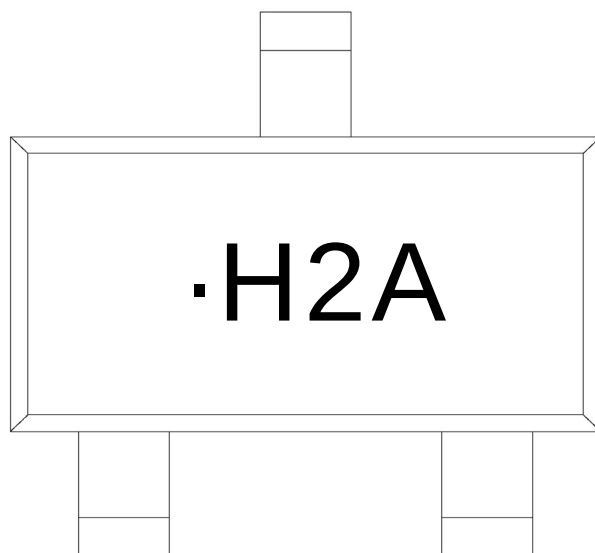
/ Package Dimensions

SOT-323 单位: mm



Dimensions In Millimeters				Dimensions In Inches			
Symbol	Min	Max	Typ	Symbol	Min	Max	Typ
A	2.2	2.5	2.3	L1	0.85	1.15	1.0
B	1.40	1.60	1.50	L2	0.30	0.40	0.35
C	1.50	1.70	1.60	P	0.35	0.45	0.40

/ Marking Instructions



·

H

2A

Note:

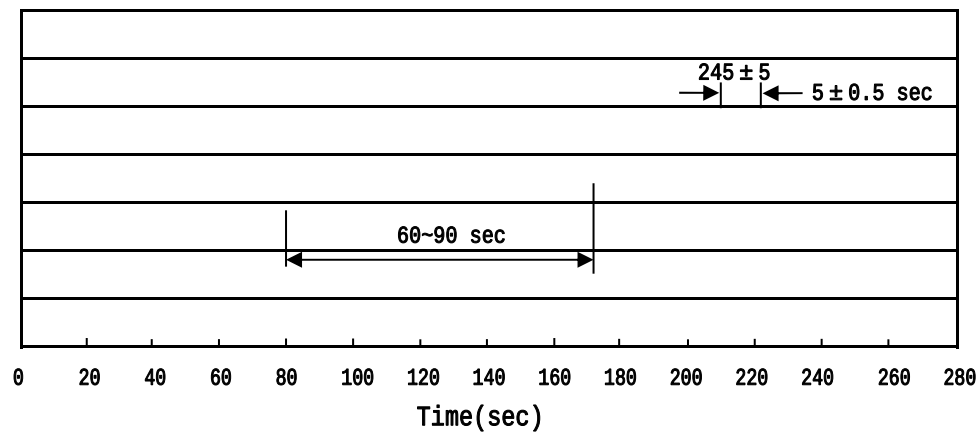
·

Identify

H: Company Code

2A: Product Type Code

() / 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.

/ 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)		
SOT-323	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices