

**MMBT4403**  
Rev.G May.-2023

SOT-23          PNP

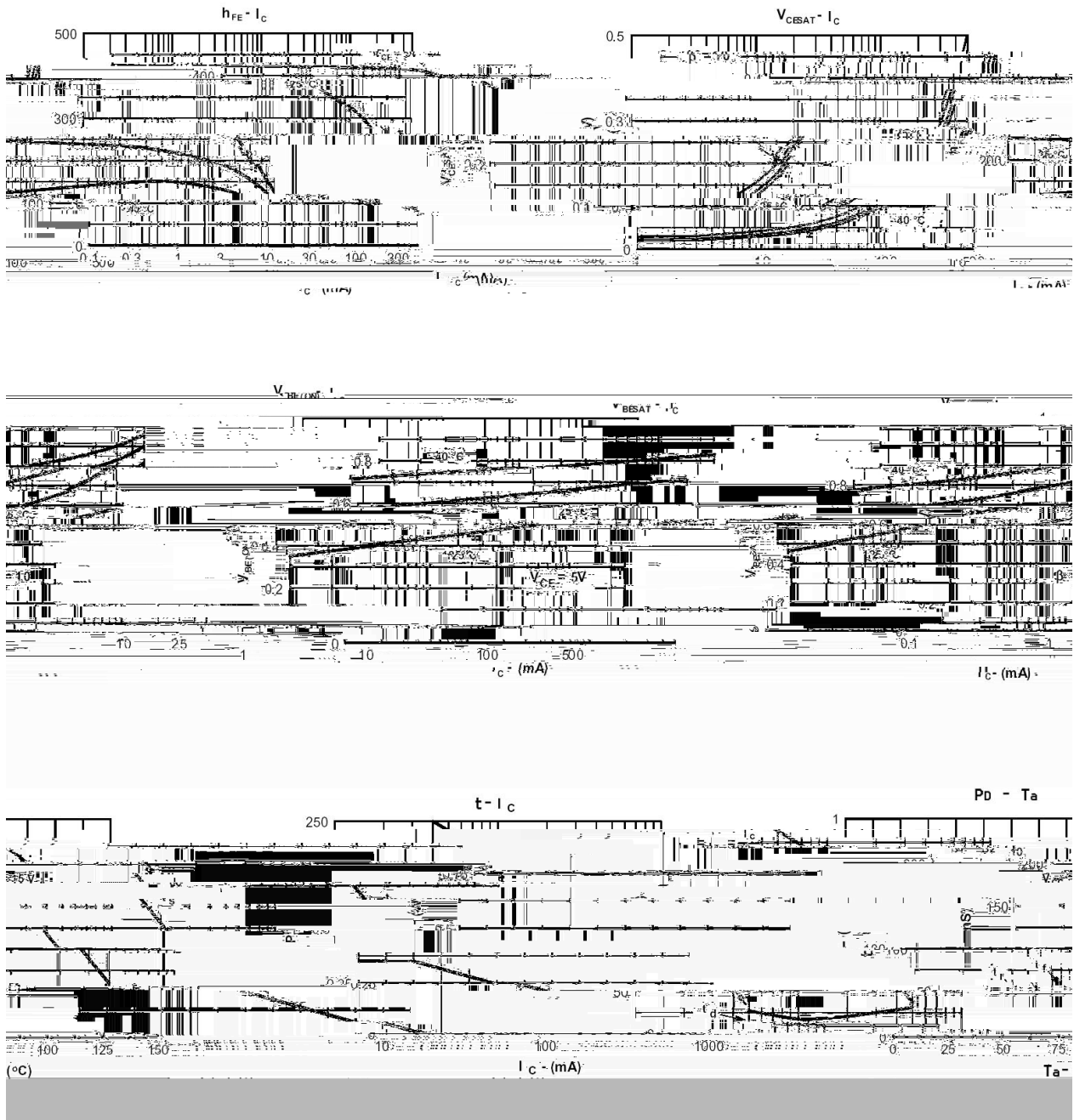
## / Absolute Maximum Ratings(Ta=25 )

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V <sub>CBO</sub>	-40	V
Collector to Emitter Voltage	V <sub>CEO</sub>	-40	V
Emitter to Base Voltage	V <sub>EBO</sub>	-5.0	V
Collector Current	I <sub>C</sub>	-600	mA
Collector Power Dissipation	P <sub>C</sub>	350	mW
Junction Temperature	T <sub>j</sub>	150	
Storage Temperature Range	T <sub>stg</sub>	-55 150	

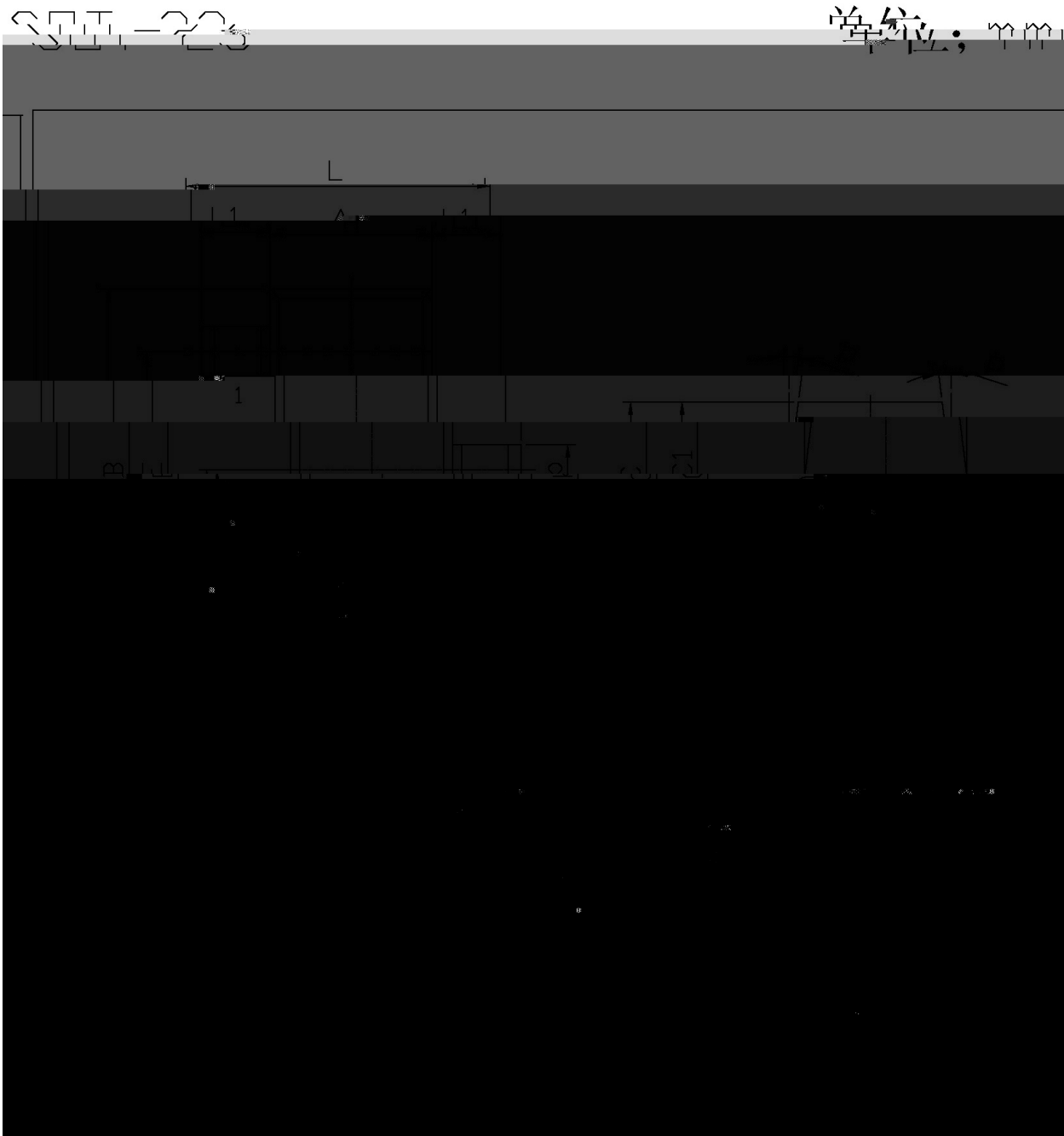
## / Electrical Characteristics(Ta=25 )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V <sub>CBO</sub>	I <sub>C</sub> =-0.1mA I <sub>E</sub> =0	-40			V
Collector to Emitter Breakdown Voltage	V <sub>CEO</sub>	I <sub>C</sub> =-1.0mA I <sub>B</sub> =0	-40			V
Emitter to Base Breakdown Voltage	V <sub>EBO</sub>	I <sub>E</sub> =-0.1mA I <sub>C</sub> =0	-5.0			V
Collector Cut-Off Current	I <sub>CBO</sub>	V <sub>CB</sub> =-40V I <sub>E</sub> =0			-50	nA
Emitter Cut-Off Current	I <sub>EBO</sub>	V <sub>EB</sub> =-5.0V I <sub>C</sub> =0			-50	nA
DC Current Gain	h <sub>FE(1)</sub>	V <sub>CE</sub> =-2.0V I <sub>C</sub> =-150mA	100		300	
	h <sub>FE(2)</sub>	V <sub>CE</sub> =-1.0V I <sub>C</sub> =-0.1mA	30			
	h <sub>FE(3)</sub>	V <sub>CE</sub> =-1.0V I <sub>C</sub> =-1.0mA	60			
	h <sub>FE(4)</sub>	V <sub>CE</sub> =-1.0V I <sub>C</sub> =-10mA	100			
	h <sub>FE(5)</sub>	V <sub>CE</sub> =-2.0V I <sub>C</sub> =-500mA	20			
Collector-Emitter Saturation voltage	V <sub>CE(sat) (1)</sub>	I <sub>C</sub> =-150mA I <sub>B</sub> =-15mA			-0.4	V
	V <sub>CE(sat) (2)</sub>	I <sub>C</sub> =-500mA I <sub>B</sub> =-50mA			-0.75	V
Base-Emitter Saturation Voltage	V <sub>BE(sat) (1)</sub>	I <sub>C</sub> =-150mA I <sub>B</sub> =-15mA	-0.75		-0.95	V
	V <sub>BE(sat) (2)</sub>	I <sub>C</sub> =-500mA I <sub>B</sub> =-50mA			-1.3	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =-10V I <sub>C</sub> =-20mA f=100MHz	200			MHz
Delay Time	t <sub>d</sub>	V <sub>CC</sub> =-30V I <sub>C</sub> =-150mA			15	ns
Rise Time	t <sub>r</sub>	I <sub>B1</sub> =-15mA			20	ns
Storage Time	t <sub>s</sub>	V <sub>CC</sub> =-30V I <sub>C</sub> =-150mA			225	ns
Fall Time	t <sub>f</sub>	I <sub>B1</sub> =I <sub>B2</sub> =-15mA			30	ns

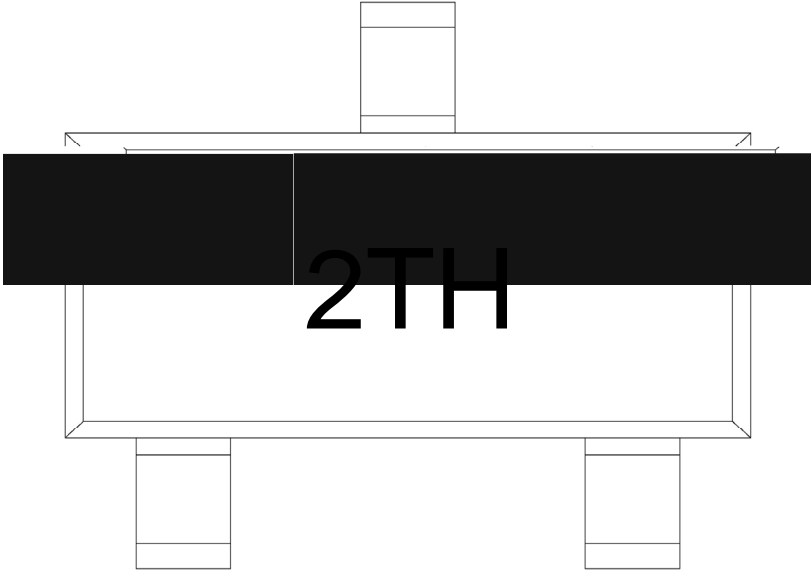
/ Electrical Characteristic Curve



/ Package Dimensions



**/ Marking Instructions**



2T

H

Note:

2T      Product Type Code

H        Company Code

