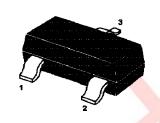
# **MMBT5401**

### Features

- For Switching and Amplifier Applications.
- Silicon Epitaxial Chip



SOT-23 (TO-236)

1 Base 2. Emitter 3. Collector

# **Absolute Maximum Ratings** (TA=25 <sup>O</sup>C, unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector Base Voltage	-V <sub>CBO</sub>	160	V
Collector Emitter Voltage	-Vceo	150	V
Emitter Base Voltage	-V <sub>EBO</sub>	6	V
Collector Current	-lc	600	mA
Power Dissipation	PD	350	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to 150	°C

### Electrical Characteristics (T<sub>A</sub>=25 °C, unless otherwise

noted)

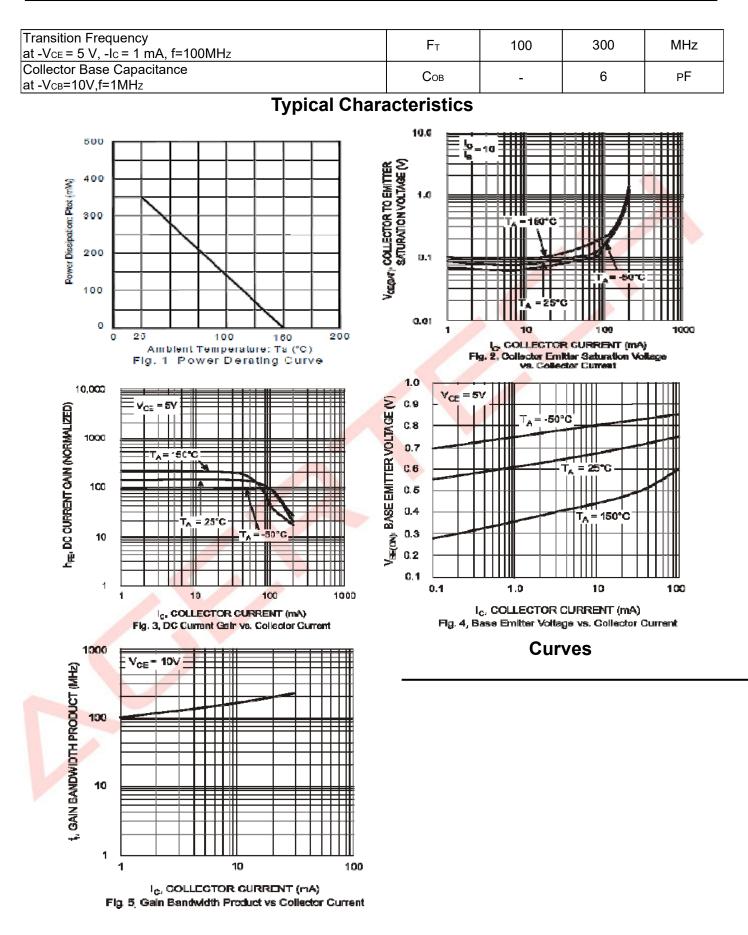
Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at -VcE = 5 V, -Ic = 1mA at -VcE = 5V, -Ic = 10 mA at -VcE=5V,-Ic=50mA	H <sub>FE</sub>	50 60 50	- 240 -	- - -
Collector Base Cutoff Current at -VcB = 120 V	Ісво	-	50	nA
Emitter Base Cutoff Current at -VEB=3V	Іево	-	50	nA
<mark>Co</mark> llector B <mark>a</mark> se Breakdown Voltage a <mark>t -I</mark> c = 100 μA	V <sub>(BR)CBO</sub>	160	-	V
C <mark>ollecto</mark> r Emitter Breakdown Voltage at -Ic = 1 mA	V <sub>(BR)CEO</sub>	150	-	V
Emitter Base Breakdown Voltage at -I⊧ = 10 μA	V <sub>(BR)EBO</sub>	6	-	V
Collector Emitter Saturation Voltage at -Ic = 10 mA, -Iв = 1 mA at -Ic=50ma , -Iв=5mA	V <sub>CE(sat)</sub>	-	0.2 0.5	V
Base Emitter Saturation Voltage at -I <sub>C</sub> = 10 mA, -I <sub>B</sub> = 1 mA at -Ic=50 mA,-I <sub>B</sub> =5mA	V <sub>BE(sat)</sub>		1 1	V



### AGERTECH MICROELECTRONICS

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# **MMBT5401**





#### AGERTECH MICROELECTRONICS

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### Package Outline

SOT-23 (TO-236)

Symbol	Dimensions in millimeter			
	Min.	Тур.	Max.	
А	0.900	1.025	1.150	
A1	0.000	0.050	0.100	
b	0.300	0.400	0.500	
С	0.080	0.115	0.150	
D	2.800	2.900	3.000	
E	1.200	1.300	1.400	
HE	2.250	2.400	2.550	
е	1.800	1.900	2.000	
L1	0.550REF			
L	0.300		0.500	
θ	0°		8°	

Device	Package	Reel Dimension (inch)	Shipping
MMBT5401	SOT-23	7	3,000

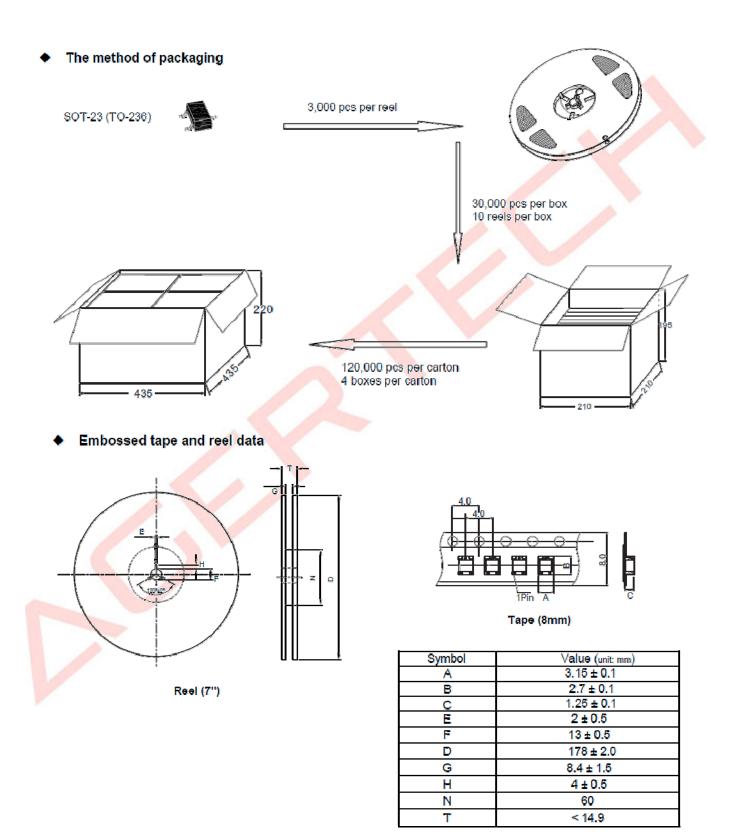


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## **MMBT5401**

#### Package Specifications





### AGERTECH MICROELECTRONICS

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 2SA2126-E
 2SB1204S-TL-E
 2SC2712S-GR,LF
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