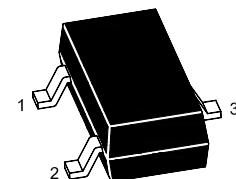




## Features

- Low equivalent on-resistance
- Be complementary with FMMT491

SOT-23  
(TO-236)



1.Base 2.Emitter 3.Collector  
**Marking: 591**

## Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Collector Base Voltage	-V <sub>CBO</sub>	80	V
Collector Emitter Voltage	-V <sub>CEO</sub>	60	V
Emitter Base Voltage	-V <sub>EBO</sub>	5	V
Collector Current	-I <sub>C</sub>	1	A
Peak Pulse Current	-I <sub>CM</sub>	2	A
Power Dissipation	P <sub>D</sub>	500	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to 150	°C



## Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

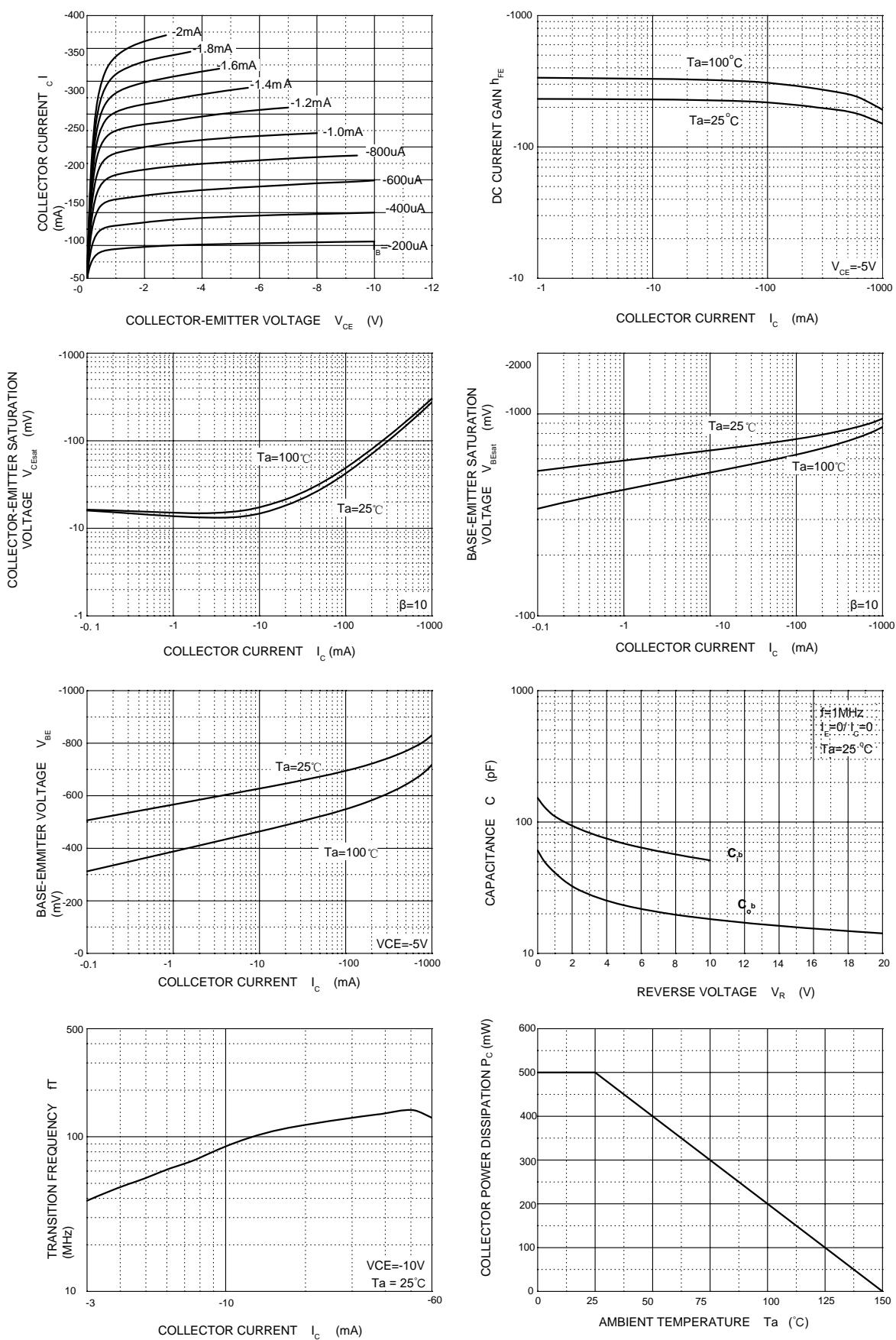
Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain <sup>note1</sup> at $-V_{CE} = 5$ V, $-I_C = 1$ mA at $-V_{CE} = 5$ V, $-I_C = 500$ mA at $-V_{CE} = 5$ V, $-I_C = 1$ A at $-V_{CE} = 5$ V, $-I_C = 2$ A	$H_{FE}$	100	-	-	
		100	-	300	
		80	-	-	
		15	-	-	
Collector Base Cutoff Current at $-V_{CB} = 60$ V	$-I_{CBO}$	-	-	100	nA
Emitter Base Cutoff Current at $-V_{EB} = 5.6$ V	$-I_{EBO}$	-	-	100	nA
Collector Base Breakdown Voltage at $-I_C = 100$ $\mu$ A	$-V_{(BR)CBO}$	80	-	-	V
Collector Emitter Breakdown Voltage at $-I_C = 10$ mA	$-V_{(BR)CEO}$	60	-	-	V
Emitter Base Breakdown Voltage at $-I_E = 100$ $\mu$ A	$-V_{(BR)EBO}$	5	-	-	V
Collector Emitter Saturation Voltage <sup>note1</sup> at $-I_C = 500$ mA, $-I_B = 50$ mA at $-I_C = 1$ A, $-I_B = 100$ mA	$-V_{CE(sat)}$	-	-	300 600	mV
Base Emitter Saturation Voltage <sup>note1</sup> at $-I_C = 1$ A, $-I_B = 100$ mA	$-V_{BE(sat)}$	-	-	1.2	V
Base Emitter Voltage <sup>note1</sup> at $-V_{CE} = 5$ V, $-I_C = 1$ A	$-V_{BE(on)}$	-	-	1	V
Transition Frequency at $-V_{CE} = 10$ V, $-I_C = 50$ mA, $f = 100$ MHz	$F_T$	150	-	-	MHz
Collector Output Capacitance at $-V_{CB} = 10$ V, $f = 1$ MHz	$C_{ob}$	-	-	10	pF

Note1: Measured under pulsed condition, Pulse width  $\leq 300\mu$ s, Duty cycle 2%.



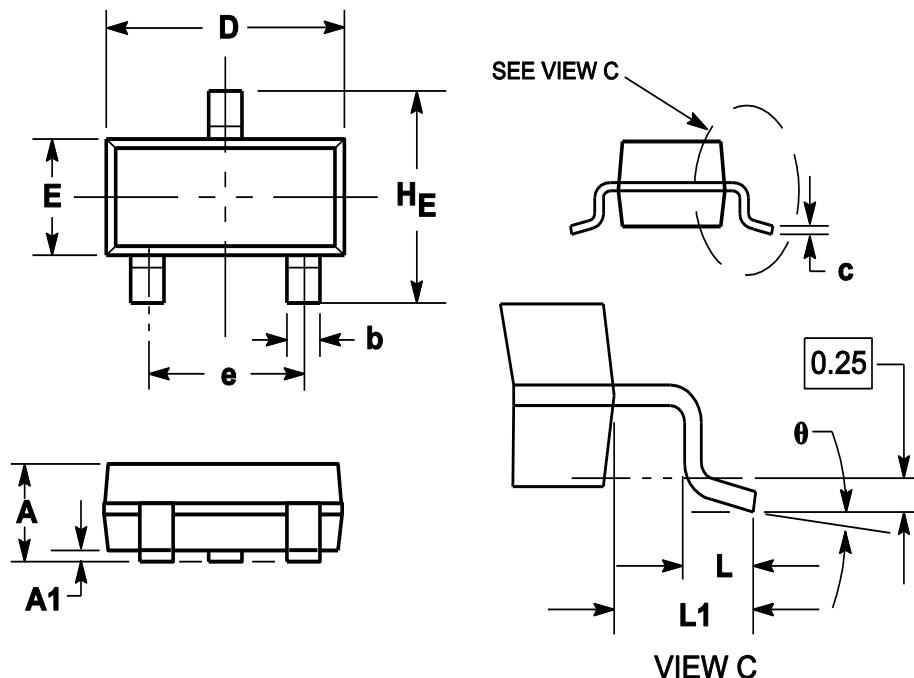
# FMMT591

## PNP Transistor





### Package Outline(SOT-23)



Symbol	Dimensions in millimeter		
	Min.	Typ.	Max.
A	0.900	1.025	1.150
A1	0.000	0.050	0.100
b	0.300	0.400	0.500
c	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
e	1.800	1.900	2.000
L1	0.550REF		
L	0.300		0.500
θ	0°		8°

### Ordering Information

Device	Package	Reel Dimension (inch)	Shipping
FMMT591	SOT-23	7	3,000

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