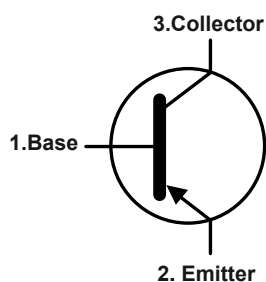


## PNP Transistor

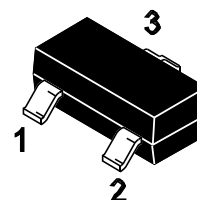
### Features

- For Switching and AF Amplifier Applications.

### Equivalent Circuit



### SOT-23



1.Base 2.Emitter 3.Collector

**Marking Code : 718**

### Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

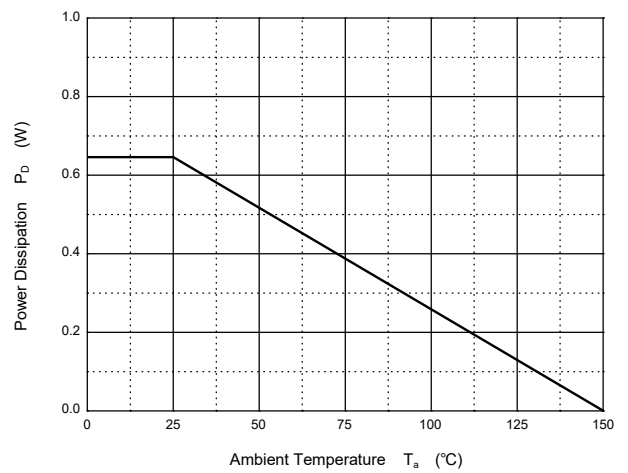
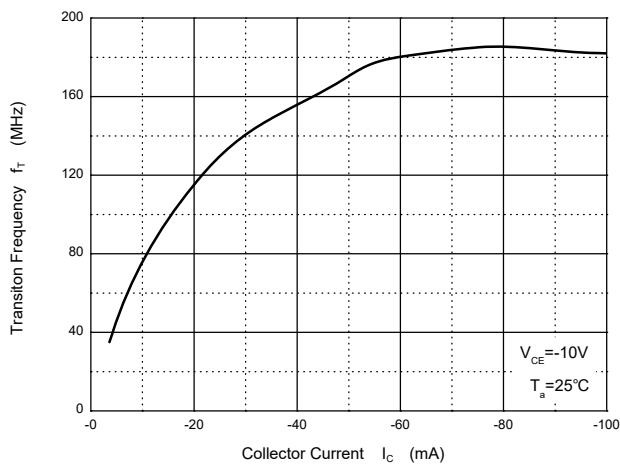
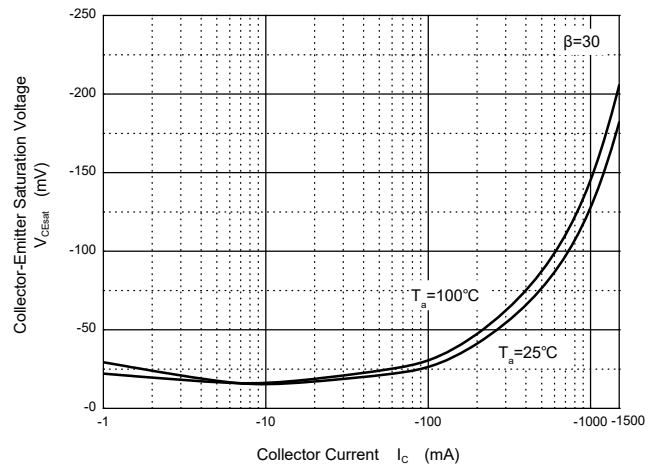
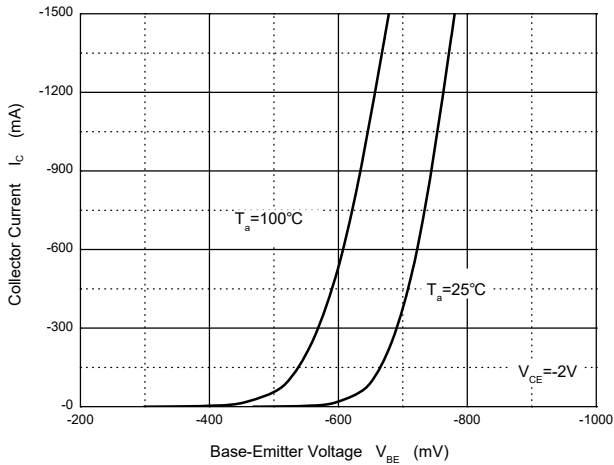
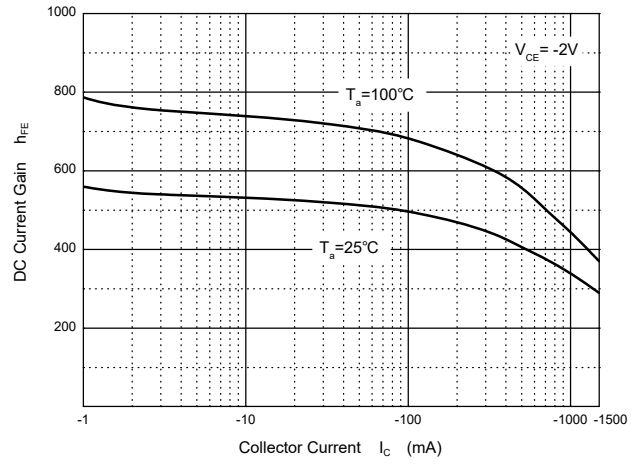
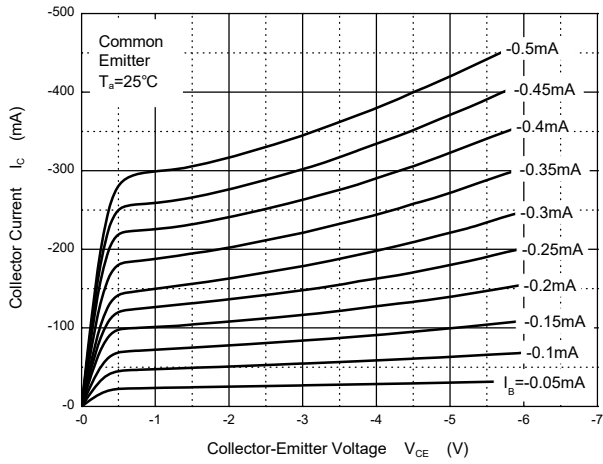
Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	20	V
Collector Emitter Voltage	$-V_{CEO}$	20	V
Emitter Base Voltage	$-V_{EBO}$	5	V
Collector Current	$-I_C$	1.5	A
Maximum Power Dissipation	$P_D$	625	mW
Junction Temperature	$T_J$	150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C

**Electrical Characteristics (T<sub>A</sub>=25°C)**

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain <sup>Note1</sup> at V <sub>CE</sub> = -2 V, I <sub>C</sub> = -10 mA at V <sub>CE</sub> = -2 V, I <sub>C</sub> = -100 mA at V <sub>CE</sub> = -2 V, I <sub>C</sub> = -2 A at V <sub>CE</sub> = -2 V, I <sub>C</sub> = -4 A	H <sub>FE</sub>	300 300 150 35	600 520 300 200	--
Collector Base Cutoff Current at V <sub>CB</sub> = -15 V	-I <sub>CBO</sub>	--	100	nA
Emitter Base Cutoff Current at V <sub>EB</sub> = -4 V	-I <sub>EBO</sub>	--	100	nA
Collector Base Breakdown Voltage at I <sub>C</sub> = -100 μA	-V <sub>(BR)CBO</sub>	20	--	V
Collector Emitter Breakdown Voltage at I <sub>C</sub> = -10 mA	-V <sub>(BR)CEO</sub>	20	--	V
Emitter Base Breakdown Voltage at I <sub>E</sub> = -100 μA	-V <sub>(BR)EBO</sub>	5	--	V
Collector Emitter Saturation Voltage <sup>Note1</sup> at I <sub>C</sub> = -100 mA, I <sub>B</sub> = -10 mA at I <sub>C</sub> = -1 A, I <sub>B</sub> = -20 mA at I <sub>C</sub> = -1.5 A, I <sub>B</sub> = -50 mA	-V <sub>CE(sat)</sub>	-- -- --	40 200 220	mV
Base Emitter Saturation Voltage <sup>Note1</sup> at I <sub>C</sub> = -1.5 A, I <sub>B</sub> = -50 mA	-V <sub>BE(sat)</sub>	--	1	V
Base Emitter On Voltage <sup>Note1</sup> at V <sub>CE</sub> = -2 V, I <sub>C</sub> = -2 A	-V <sub>BE(on)</sub>	--	1	V
Transition Frequency at V <sub>CE</sub> = -10 V, I <sub>C</sub> = -50 mA	F <sub>T</sub>	150	--	MHz
Output Capacitance at V <sub>CB</sub> = -10 V, f = 1 MHz	C <sub>ob</sub>	--	30	pF

Note1: Measured under pulsed conditions, Pulse width ≤ 300 us, Duty cycle ≤ 2%.

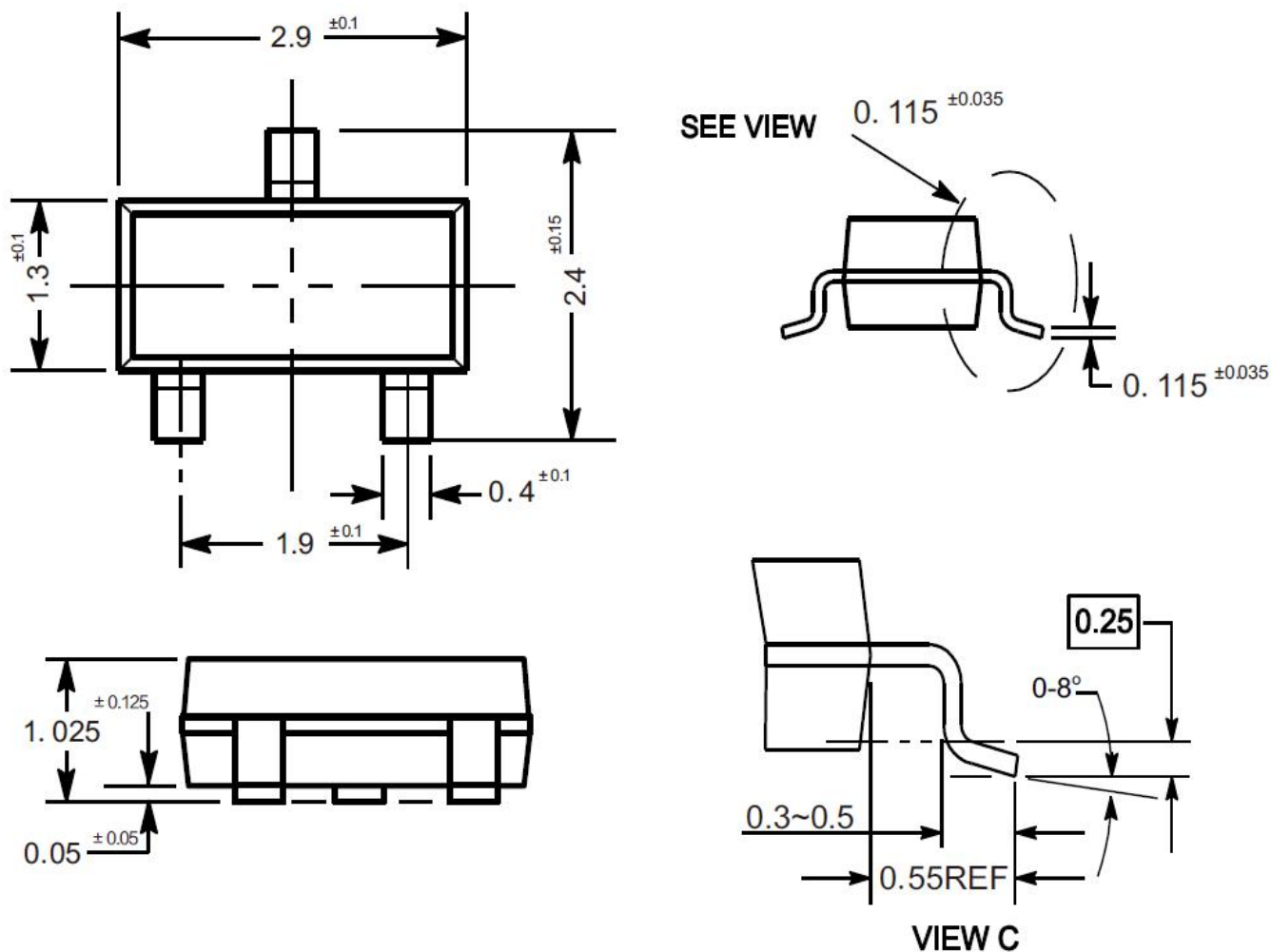
## Typical Characteristic Curves



**Package Outline**

SOT-23

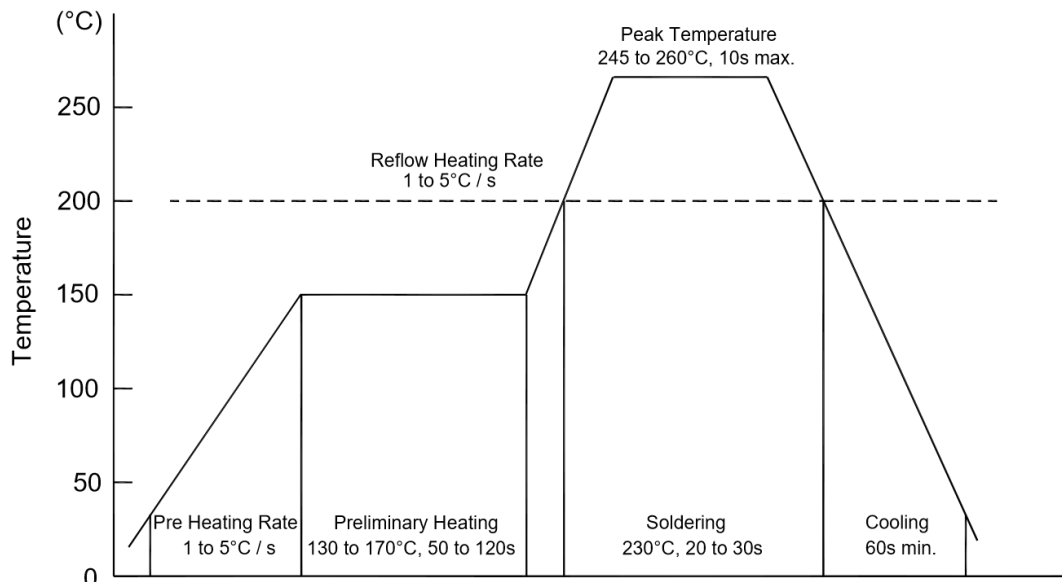
Dimensions in mm


**Ordering Information**

Device	Package	Shipping
FMMT718	SOT-23	3,000PCS/Reel&7inches

## Conditions of Soldering and Storage

### ◆ Recommended condition of reflow soldering



Recommended peak temperature is over 245 °C. If peak temperature is below 245 °C, you may adjust the following parameters:

- Time length of peak temperature (longer)
- Time length of soldering (longer)
- Thickness of solder paste (thicker)

### ◆ Conditions of hand soldering

- Temperature: 370 °C
- Time: 3s max.
- Times: one time

### ◆ Storage conditions

- **Temperature**  
5 to 40 °C
- **Humidity**  
30 to 80% RH
- **Recommended period**  
One year after manufacturing