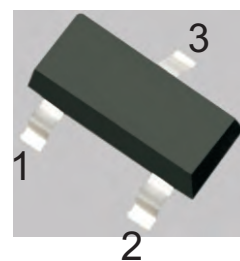


### SOT-23



1.BASE  
2.EMITTER  
3.COLLECTOR

### FEATURES

- Excellent  $h_{FE}$  linearity
- Complements the 2SC2412Q/R/S

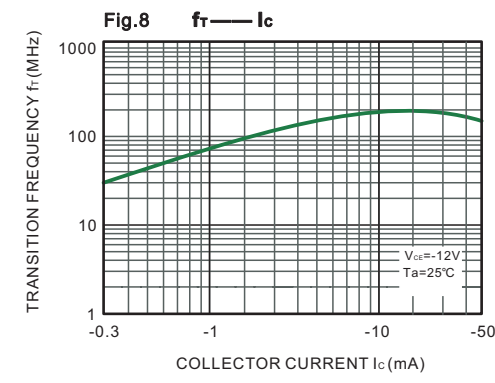
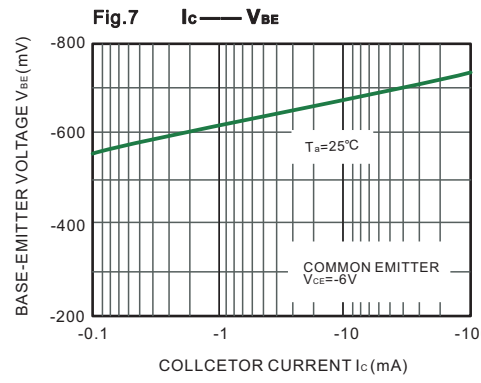
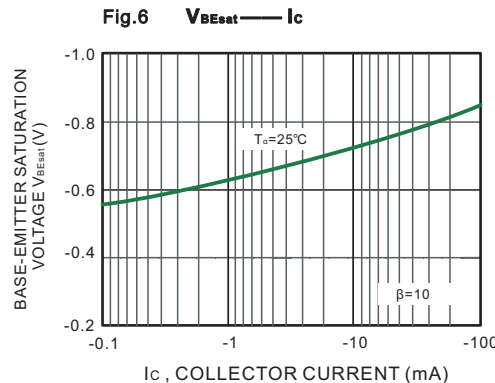
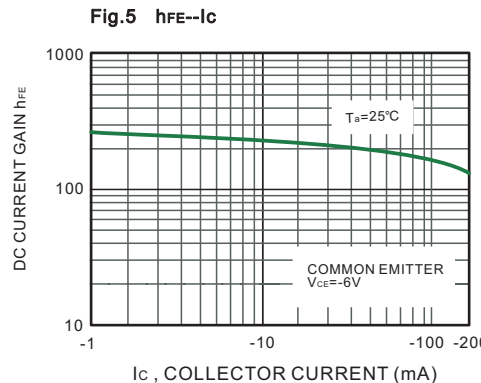
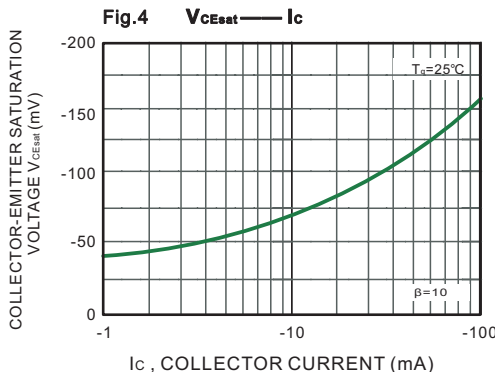
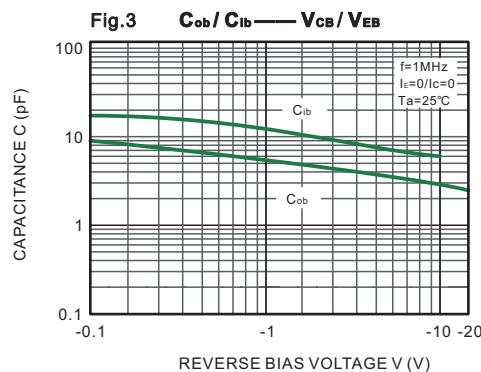
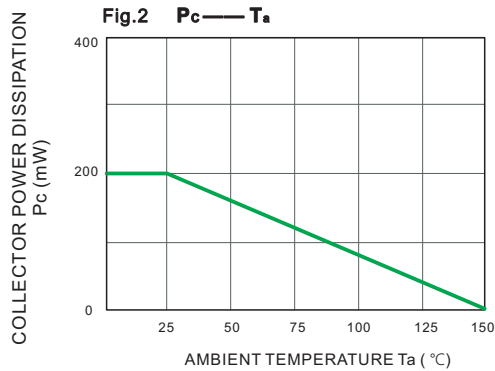
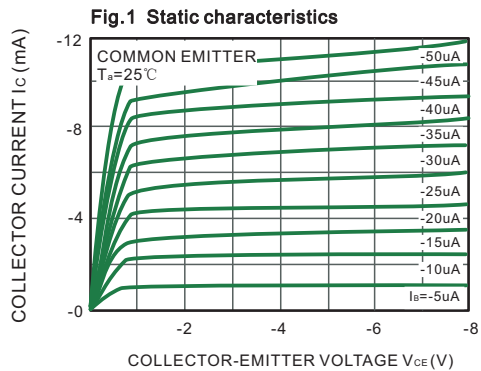
### MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$V_{CBO}$	-60	V
Collector-Emitter Voltage	$V_{CEO}$	-50	V
Emitter-Base Voltage	$V_{EBO}$	-6	V
Collector Current — Continuous	$I_C$	-150	mA
Collector Power Dissipation	$P_C$	200	mW
Operation Junction and Storage Temperature Range	$T_J, T_{stg}$	-55~+150	°C

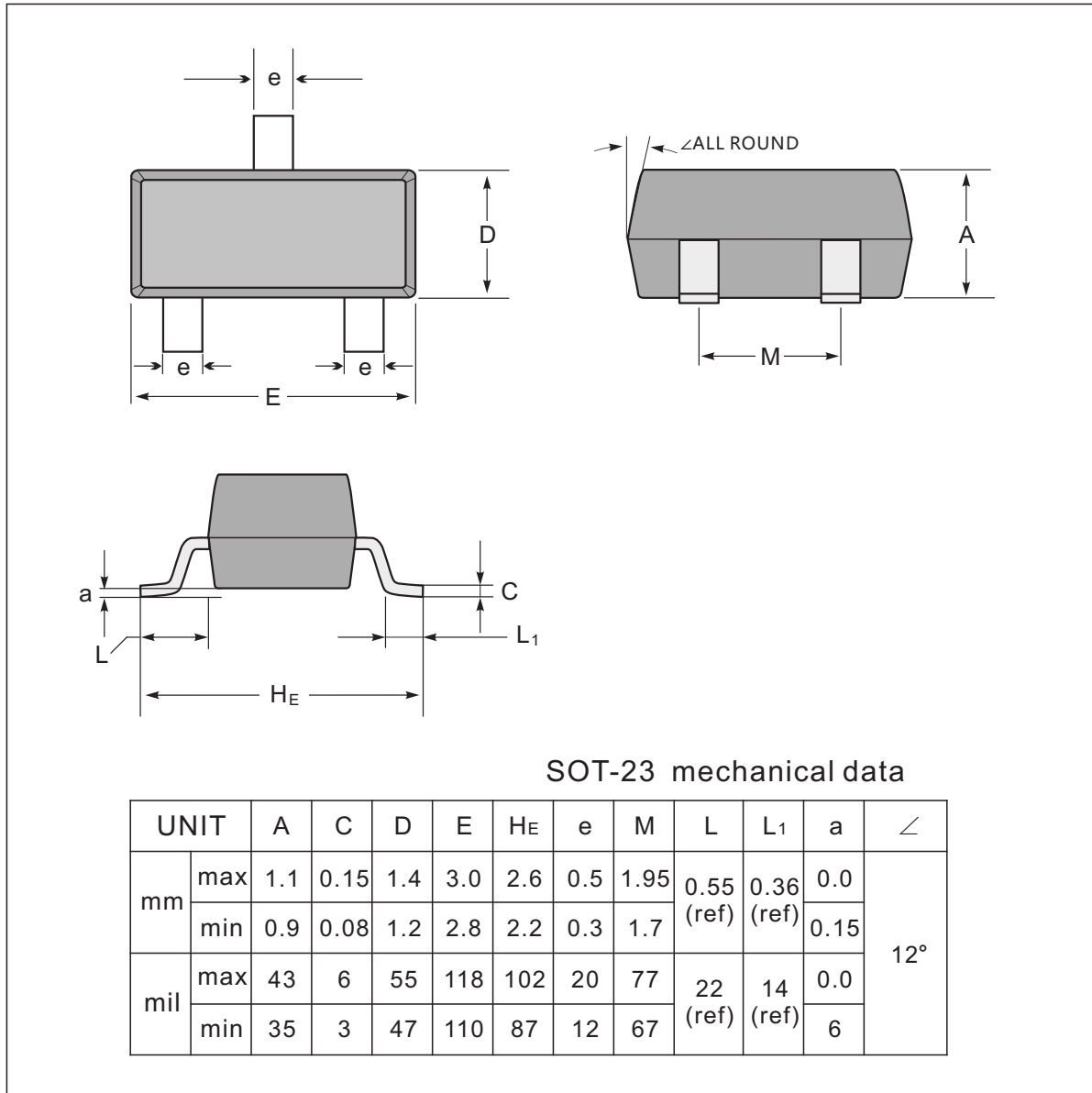
### ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted.)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -50\mu A, I_E = 0$	-60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1mA, I_B = 0$	-50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -50\mu A, I_C = 0$	-6			V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -60V, I_E = 0$			-0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = -6V, I_C = 0$			-0.1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE} = -6V, I_C = -1mA$	120 180 270		270 390 560	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -50mA, I_B = -5mA$			-0.5	V
Transition frequency	$f_T$	$V_{CE} = -12V, I_C = -2mA, f = 30MHz$		140		MHz
Collector output capacitance	$C_{ob}$	$V_{CB} = -12V, I_E = 0, f = 1MHz$		4.0	5.0	pF

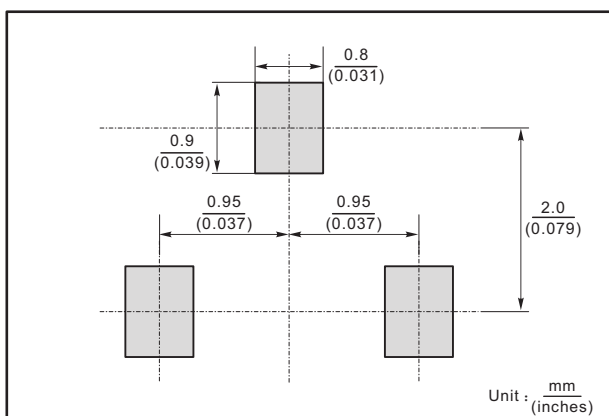
**TYPICAL CHARACTERISTICS**



**SOT-23 Package Outline Dimensions**



**The recommended mounting pad size**

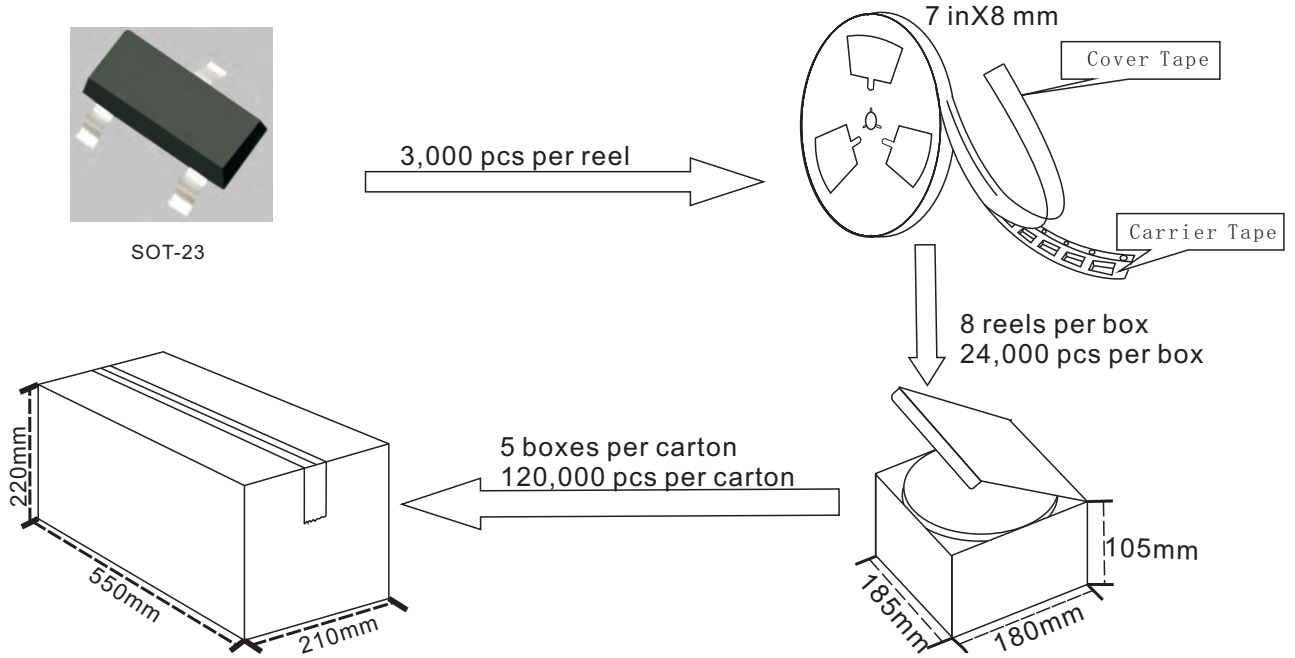


**Marking**

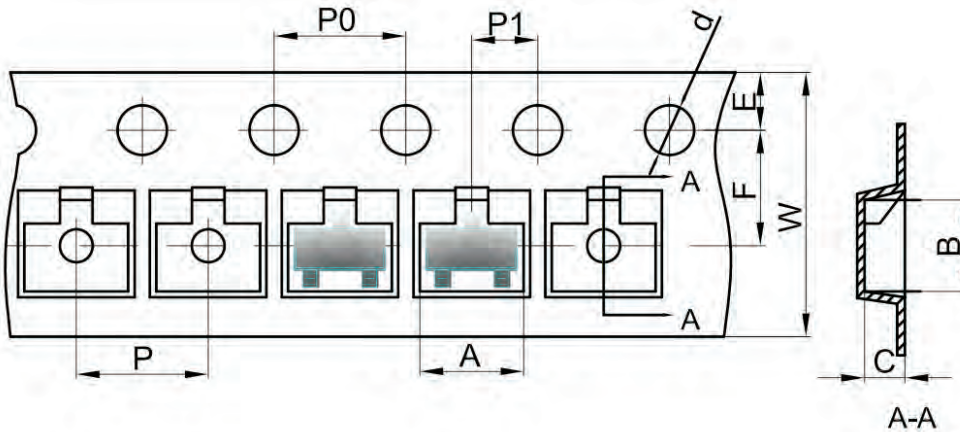
Type number	Marking code
2SA1037Q	FQ
2SA1037R	FR
2SA1037S	FS

## SOT-23 Packing

1. The method of packaging and dimension are shown as below figure. (Dimension in mm)



### SOT-23 Embossed Carrier Tape



Dimensions are in millimeter

Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	∅1.50	1.75	3.50	4.00	4.00	2.00	8.00

### SOT-23 Tape Leader and Trailer

