

PNP Transistor

C B B E SOT-23

Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Surface mount package ideally Suited for Automatic Insertion
- PNP

Mechanical Data

- Package: SOT-23
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking:

2SA1037-Q	FQ
2SA1037-R	FR
2SA1037-S	FS

■ Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V _{CBO}	V	IC=-50µA,IE=0	-60
Collector-Emitter Voltage	V _{CEO}	V	IC =-1mA,IB=0	-50
Emitter-Base Voltage	V _{EBO}	V	IE=-50μΑ,IC=0	-6
Collector Current	Ι _C	А		-0.15
Collector Power Dissipation	Pc	mW		200
Operating Junction Temperature	Tj	°C		150
Storage Temperature	T _{stg}	°C		-55 to +150

■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	Туре	Max
Collector-base breakdown voltage	V _{CBO}	V	IC=-50µA,IE=0	-60		
Collector-emitter breakdown voltage	V _{CEO}	V	IC =-1mA,IB=0	-50		
Emitter-base breakdown voltage	V_{EBO}	V	IE=-50μΑ,IC=0	-6		
Collector-base cut-off current	I _{CBO}	uA	V _{CB} =-60 V ,IE=0			-0.1
Emitter-base cut-off current	I _{EBO}	uA	V _{EB} =-6 V , IC=0			-0.1
DC current gain	h _{FE}		VCE=-6V,IC=-1mA	120		560
Collector-emitter saturation voltage	$V_{\text{CE(sat)}}$	V	IC=-50mA,IB=-5mA			-0.5
Transition frequency	f _T	MHz	VCE= -12V, IC=-2mA,f=30MHz		140	
Collector-base output capacitance	Cob	pF	V _{CB} =-12V ,IE=0, f=1MHz		4	5





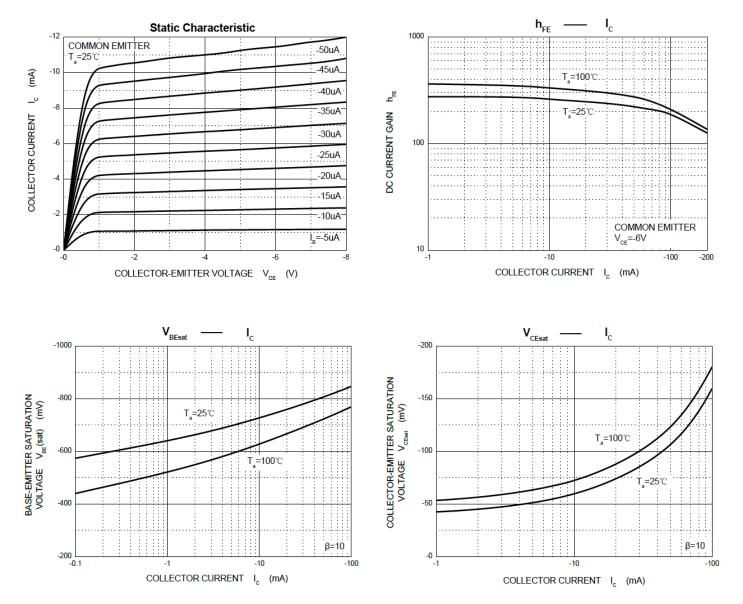
CLASSIFICATION OF HFE

Rank	Q	R	S	
Range	120-270	180-390	270-560	

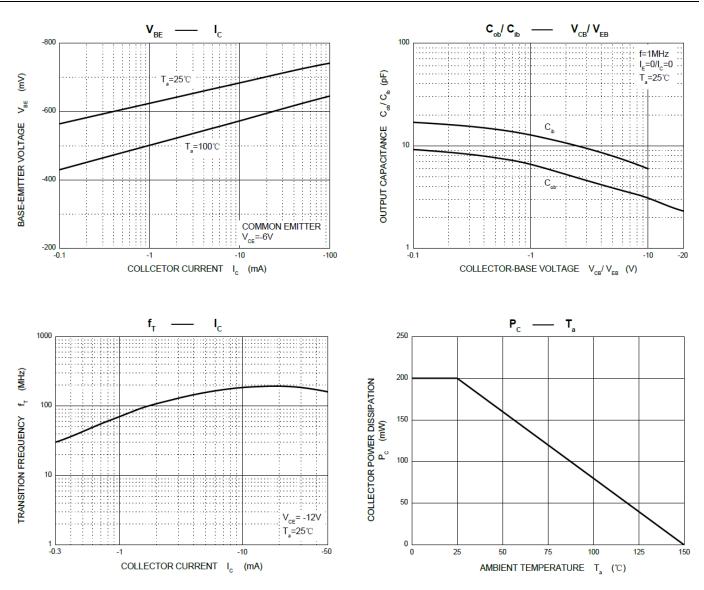
Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
2SA1037	F2	Approximate 0.008	3000	30000	120000	7" reel

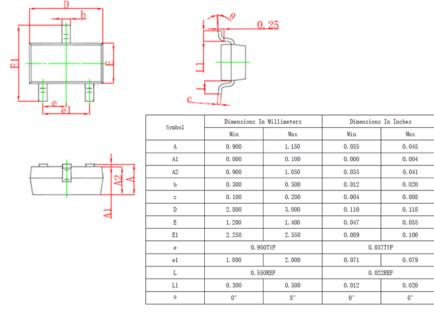
Characteristics(Typical)



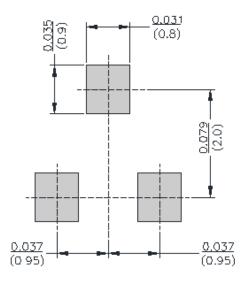
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■SOT-23 Package Outline Dimensions



■SOT-23 Soldering Footprint





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