2SA1037

SOT-23 Transistor(PNP)

<u>SOT-23</u>



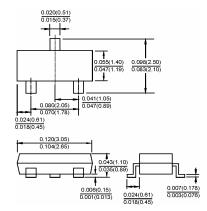
1. BASE 2. EMITTER

3. COLLECTOR

Features

- ♦ Excellent h_{FE} linearity.
- ♦ Complments the 2SC2412

MARKING : FQ, FR, FS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	-60	V	
V _{CEO}	Collector-Emitter Voltage	-50	V	
V _{EBO}	Emitter-Base Voltage	-6	V	
Ic	Collector Current -Continuous	150	mA	
Pc	Collector Power Dissipation	200	mW	
TJ	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55-150	°C	

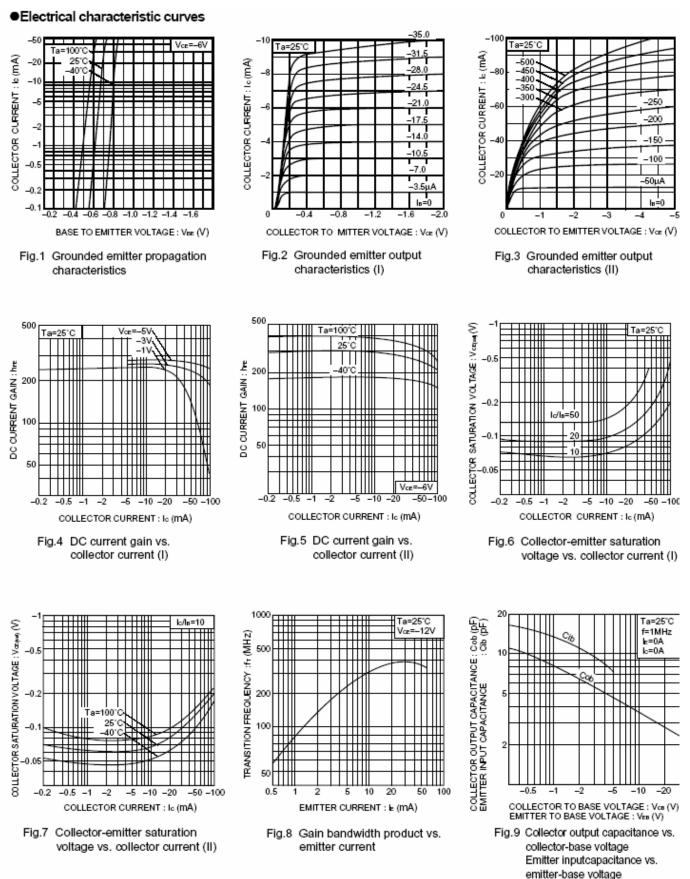
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	ТҮР	МАХ	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-50μΑ,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}	Ι _E =-50μΑ,Ι _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-60V,I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-6V,I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-6V,I _C =-1mA	120		560	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-50mA,I _B =-5mA			-0.5	V
Transition frequency	f⊤	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

CLASSIFICATION OF h_{FE}

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

Typical Characteristics



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