2SA1036

SOT-23 Transistor(PNP)



- 1. BASE
- 2. EMITTER
- 3. COLLECTOR

Features

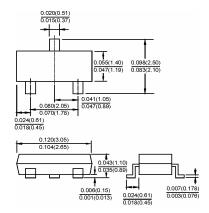
- ♦ Large I_C. _{ICMax}.= -500 mA

MARKING: HP, HQ, HR

MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-32	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-500	mA
Pc	Collector Power Dissipation	200	mW
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

SOT-23



Dimensions in inches and (millimeters)

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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA,I _E =0	-40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0	-32			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA,I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-20V,I _E =0			-1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V,I _C =0			-1	μΑ
DC current gain	h _{FE}	V _{CE} =-3V,I _C =-10mA	82		390	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA,I _B =-10mA			-0.4	V
Transition frequency	f⊤	V _{CE} =-5V,I _C =-20mA,f=100MHz		200		MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V,I _E =0,f=1MHz		7		pF

CLASSIFICATION OF hFE

Rank	Р	Q	R
Range	82 - 180	120 - 270	180 - 390

Typical Characteristics

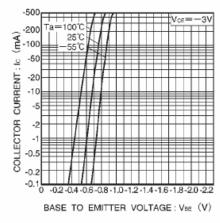
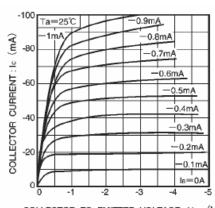
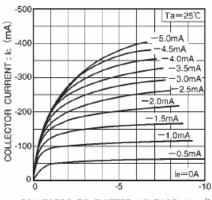


Fig.1 Grounded emitter propagation



COLLECTOR TO EMITTER VOLTAGE: VCE (V)

Grounded emitter output characteristics (I)



COLLECTOR TO EMITTER VOLTAGE: VCE (V)

Fig.3 Grounded emitter output characteristics (I)

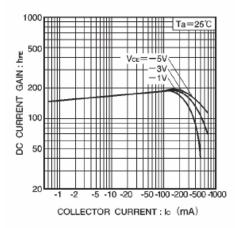


Fig.4 DC current gain vs. collector current (I)

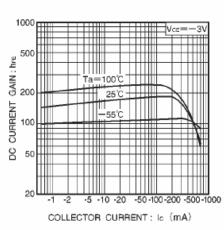


Fig.5 DC current gain vs. collector current (II)

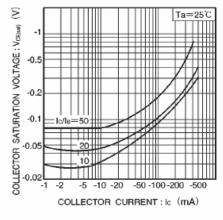
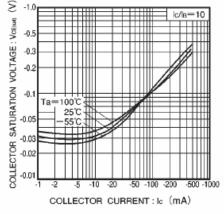
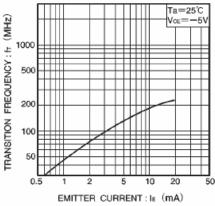


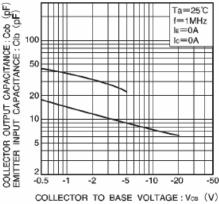
Fig.6 Collector-emitter saturation voltage vs. collector current (I)



Collector-emitter saturation voltage vs. collector current (I)



Gain bandwidth product vs. emitter current



EMITTER TO BASE VOLTAGE: VEB (V)

Fig.9 Collector output capacitance vs. collector-base voltage. Emitter input capacitance vs. emitter-base voltage

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