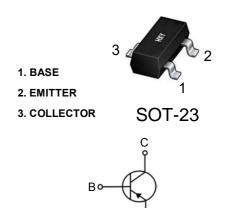


Features

- Power Transistor
- High Voltage and Current
- Low Collector-emitter saturation voltage

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)	
H2SA1037	H2SA1037 SOT-23		3000	



Maxmim Ratings (Ta=25 unless otherwise noted)

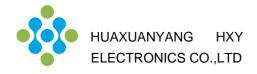
Symbol	Parameter	Value	Unit
V _{сво}	Collector-Base Voltage	-60	V
VCEO	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-6	V
lc	Collector Current	-150	mA
Pc	Collector Power Dissipation	400	mW
R _{OJA}	R _{0JA} Thermal Resistance From Junction To Ambient		°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	ĉ

Electrcal Charcteristics (Ta=25 unless otherwise specified)

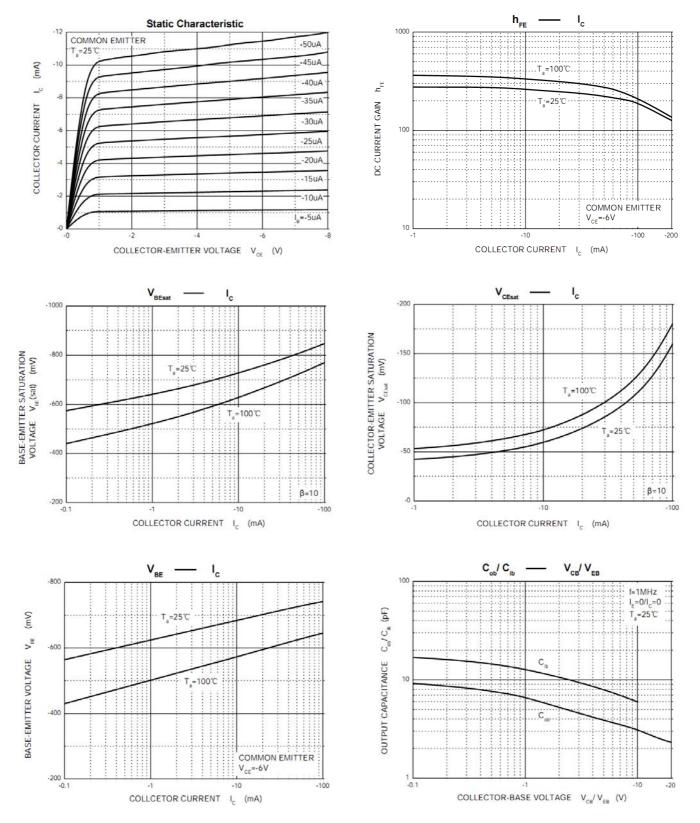
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-50μΑ, I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA, I _B =0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	Ι _Ε =-50μΑ, Ι _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CE} =-60V, I _E =0			-0.1	μA
Emitter-base breakdown voltage	I _{EBO}	V _{EB} =-6V, I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-6V, Ic=-1mA	120		560	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-50mA, I _B =-5mA			-0.25	V
Collector output capacitance	C _{ob}	V _{CB} =-12V, I _E =0,f=1MHz		4	5	pF
Transition frequency	f⊤	V _{CE} =-12V,I _C =-2mA, f=30MHz		140		MHz

Classifiction Of hFE

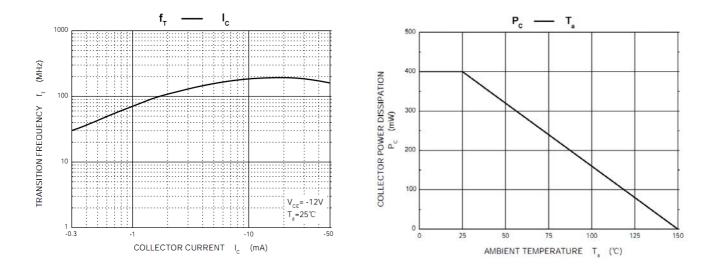
Rank	H2SA1037AKT146Q	H2SA1037AKT146R	H2SA1037AKT146S
Range	120-270	180-390	270-560
Marking	FQ	FR	FS



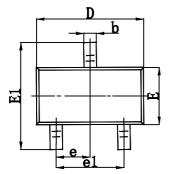
Typical Characteristics

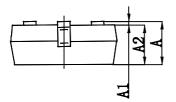


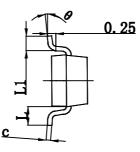




SOT-23 Package Outline Dimensions







Sumbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	



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