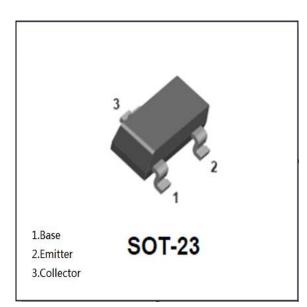




PNP Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- •Halogen free available upon request by adding suffix "HF"
- 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:

2SA812-M4	M4
2SA812-M5	M5
2SA812-M6	M6
2SA812-M7	M7

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

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V_{CBO}	V	IC=-100µA,IE=0	-60
Collector-Emitter Voltage	V _{CEO}	V	IC =-1mA,IB=0	-50
Emitter-Base Voltage	V _{EBO}	V	IE=-100μA,IC=0	-5
Collector Current	Ic	А		-0.1
Collector Power Dissipation	Pc	mW		200
Junction Temperature	Tj	°C		150
Storage Temperature	T_{stg}	$^{\circ}$ 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=-100μA,IE=0	-60		
Collector-emitter breakdown voltage	V _{CEO}	V	IC =-1mA,IB=0	-50		
Emitter-base breakdown voltage	V _{EBO}	V	IE=-100μA,IC=0	-5		
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} =-5 V , IC=0			-0.1
DC current gain	h _{FE}		VCE=-6V,IC=-1mA	90		600
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=-100mA,IB=-10mA			-0.3
Base-emitter voltage	V_{BE}	V	VCE=-6V,IC=-1mA			-0.68
Transition frequency	f _T	MHz	VCE= -6V, IC=-10mA		180	
Collector-base output capacitance	Cob	pF	VCB=-10V,IE=0,f=1MHz		4.5	



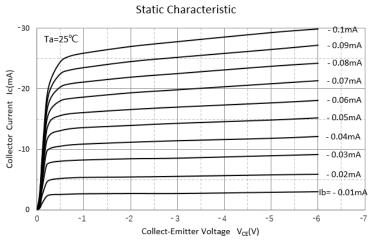


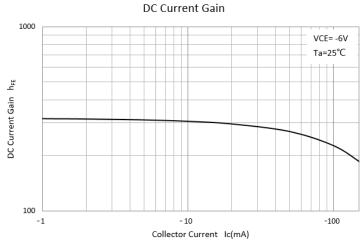
■ CLASSIFICATION OF HFE

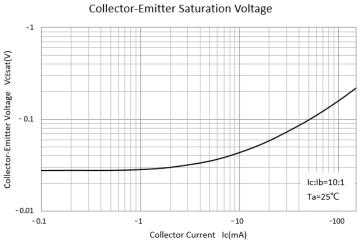
Rank	Rank M4		M6	M7	
Range	90-180	135-270	200-400	300-600	

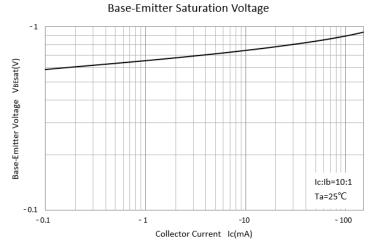
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
2SA812	F2	Approximate 0.008	3000	30000	120000	7" reel

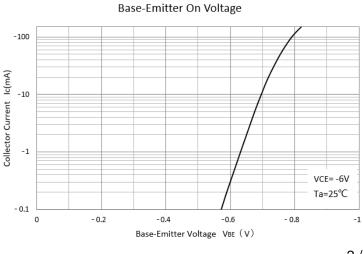
■ Characteristics(Typical)

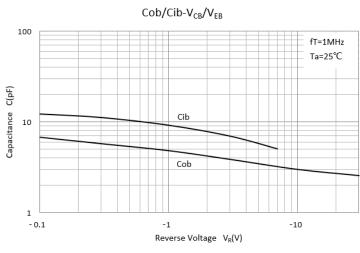








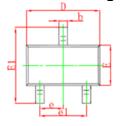


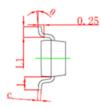


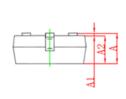




■SOT-23 Package Outline Dimensions

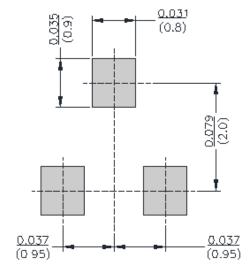






Symbol	Dimensions In	n Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
A	0. 900	1. 150	0. 035	0.045	
A1	0.000	0. 100	0.000	0.004	
A2	0. 900	1. 050	0. 035	0. 041	
ь	0.300	0. 500	0.012	0. 020	
с	0. 100	0. 200	0.004	0.008	
D	2.800	3.000	0. 110	0.118	
Е	1. 200	1. 400	0.047	0. 055	
E1	2. 250	2. 550	0.089	0. 100	
e	0. 95	OTYP	0. 037TYP		
e1	1.800	2. 000	0.071	0. 079	
L	0.55	OREF	0. 022REF		
L1	0.300	0. 500	0.012	0.020	
θ	0°	8°	0*	8*	

■SOT-23 Soldering Footprin





2SA812



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