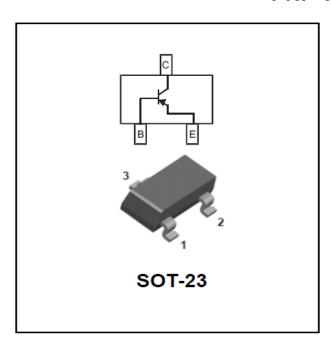




PNP Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- Marking: 2T1

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

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	V_{CBO}	V		-40
Collector-Emitter Voltage	V _{CEO}	V		-25
Emitter-Base Voltage	V _{EBO}	V		-5
Collector Current	Ic	mA		-500
Collector Power Dissipation	Pc	mW		300
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	°C/W		416
Operation Junction Temperature	T _j	°C		-55 to +150
Storage Temperature	T _{stg}	°C		-55 to +150

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

Item	Symbol	Unit	Conditions	Min	Тур	Max
Collector-base breakdown voltage	V _{CBO}	V	IC=-0.1mA,IE=0	-40		
Collector-emitter breakdown voltage	V_{CEO}	V	IC =-1mA,IB=0	-25		
Emitter-base breakdown voltage	V _{EBO}	V	IE=-0.1mA,IC=0	-5		
Collector-Base cut-off current	I _{CBO}	uA	VCB=-40V,IE=0			-0.1
Collector-Emitter cut-off current	I _{CEO}	uA	VCE=-20V, IB =0			-0.1
Emitter-Base cut-off current	I _{EBO}	uA	VEB=-5V, IC =0			-0.1
DC current gain	h _{FE}	V	VCE=-1V,IC=-50mA	120		400
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=-500mA,IB=-50mA			-0.6
Base-emitter saturation voltage	V _{BE(sat)}	V	IC=-500mA,IB=-50mA			-1.2
Transition frequency	f⊤	MHz	VCE=-6V,IC=-20mA,f=30MHz	150		





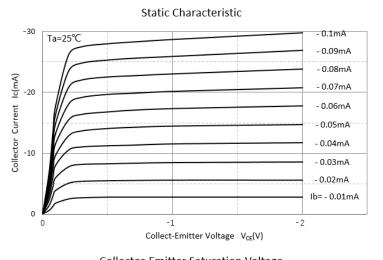
■CLASSIFICATION OF HFE (1)

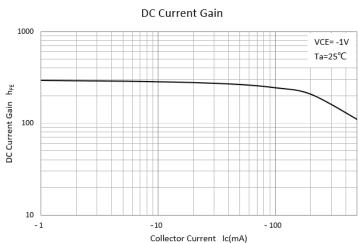
RANK	L	Н	J
RANGE	120-200	200-350	300-400

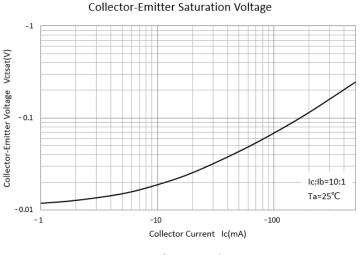
■ Ordering Information (Example)

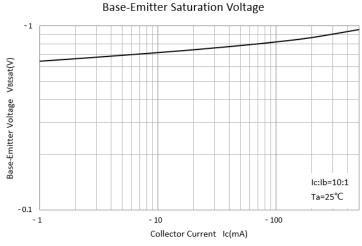
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S9012	F2	Approximate 0.008	3000	30000	120000	7" reel

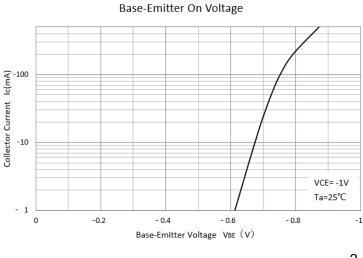
■ Characteristics (Typical)

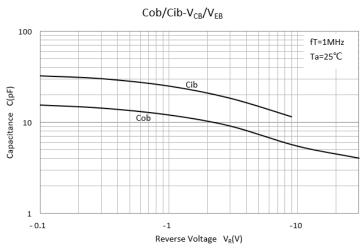










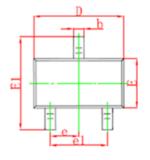


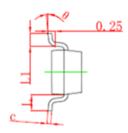
2/4

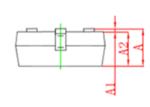




■SOT-23 Package Outline Dimensions

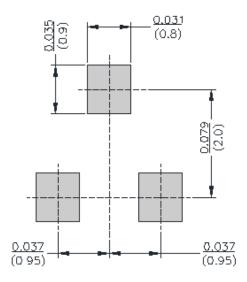






Symbol	Dimensions In	n Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
A	0.900	1. 150	0.035	0. 045	
A1	0.000	0. 100	0.000	0.004	
A2	0.900	1. 050	0. 035	0.041	
b	0.300	0.500	0.012	0.020	
c	0.100	0. 200	0.004	0.008	
D	2, 800	3, 000	0. 110	0. 118	
Е	1. 200	1. 400	0. 047	0. 055	
E1	2. 250	2. 550	0.089	0.100	
e	0. 950TYP		0. 037TYP		
el	1. 800	2.000	0.071	0.079	
L	0. 550REF		0. 022REF		
L1	0.300	0. 500	0.012	0.020	
Θ	0°	8°	0°	8°	

■SOT-23 Soldering Footprint





S9012



Disclaimer

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