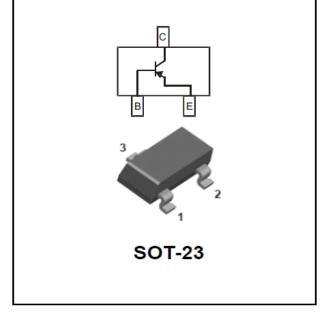


PNP Transistor

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	Vсво	V		-40
Collector-Emitter Voltage	VCEO	V		-25
Emitter-Base Voltage	Vebo	V		-5
Collector Current	Ι _c	mA		-500
Collector Power Dissipation	Pc	mW		300
Thermal Resistance From Junction To Ambient	R _{0JA}	°C /W		416
Operation Junction Temperature	Tj	°C		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	Vceo	V	Ic =-1mA,I _B =0	-25		
Emitter-base breakdown voltage	Vebo	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	ICEO	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,Iв=-50mA			-0.6
Base-emitter saturation voltage	V _{BE(sat)}	V	Ic=-500mA,Iв=-50mA			-1.2
Transition frequency	f⊤	MHz	Vce=-6V,Ic=-20mA,f=30MHz	150		



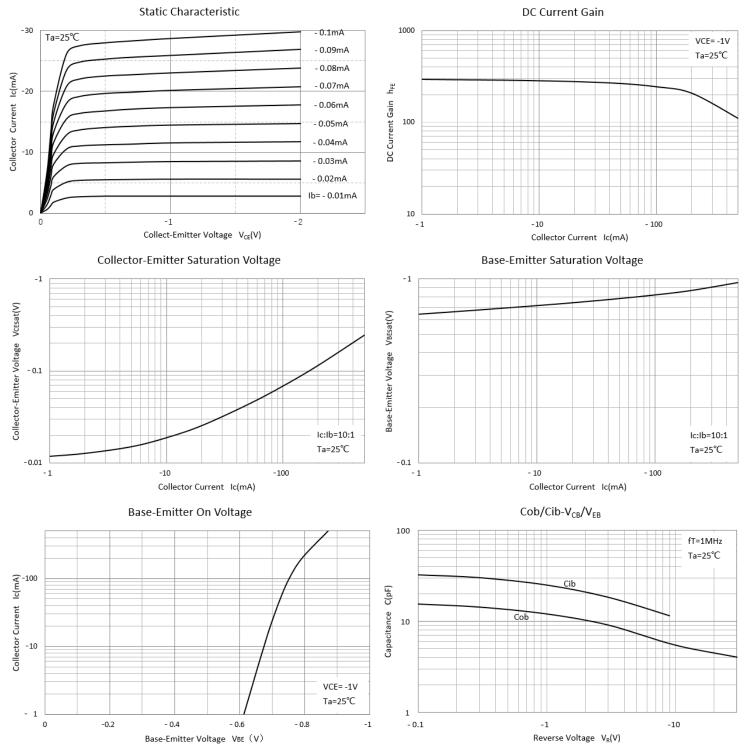
■CLASSIFICATION OF HFE (1)

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

Ordering Information (Example)

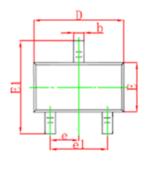
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
S9012	F2	Approximate 0.008	3000	30000	120000	7" reel

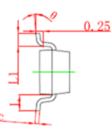
Characteristics (Typical)

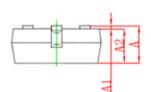


2/4

■SOT-23 Package Outline Dimensions

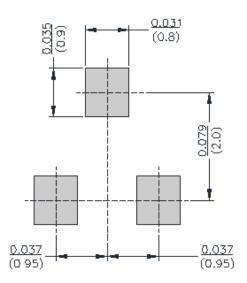






Symbol	Dimensions Ir	n Millimeters	Dimensions In Inches		
	Min	Max	Min	Max	
A	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
c	0.100	0.200	0.004	0.008	
D	2.800	3.000	0.110	0.118	
Е	1.200	1. 400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
e	0. 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



3/4



Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.21yangjie.com , or consult your nearest Yangjie's sales office for further assistance.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Yangjie manufacturer:

Other Similar products are found below :

619691C MCH4017-TL-H BC546/116 BC557/116 BSW67A NTE158 NTE187A NTE195A NTE2302 NTE2330 NTE63 C4460 2SA1419T-TD-H 2SA1721-O(TE85L,F) 2SA2126-E 2SB1204S-TL-E 2SC5488A-TL-H 2SD2150T100R SP000011176 2N2369ADCSM 2N5769 2SC2412KT146S 2SC5490A-TL-H 2SD1816S-TL-E 2SD1816T-TL-E CMXT2207 TR CPH6501-TL-E MCH4021-TL-E US6T6TR NJL0281DG 732314D CMXT3906 TR CPH3121-TL-E CPH6021-TL-H 873787E IMZ2AT108 UMX21NTR MCH6102-TL-E NJL0302DG TTA1452B,S4X(S 2N3583 NTE103 30A02MH-TL-E NSV40301MZ4T1G NTE101 NTE13 NTE15 NTE16001 NTE16006 NTE26