

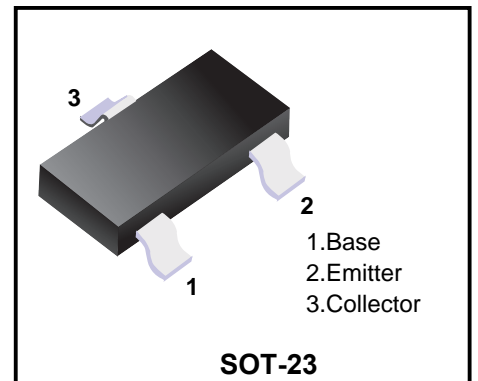
NPN RF Transistors

Description

- Low Noise
- High Current-Gain Bandwidth Product

Applications

- Designed for use in VHF RF amplifier, local oscillator, mixer.



hFE Classification

Marking	T32	T33	T34
h _{FE}	60-120	90-180	120-240

Absolute Maximum Ratings (Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	15	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current-Continuous	50	mA
P _C	Collector Power Dissipation @T _C =25°C	0.15	W
T _J	Junction Temperature	125	°C
T _{stg}	Storage Temperature Range	-55~125	°C

Electrical Characteristics (Ta=25°C unless otherwise specified.)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10mA ; I _B = 1mA			0.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 12V; I _E = 0			0.1	μ A
h _{FE}	DC Current Gain	I _C = 5mA ; V _{CE} = 10V	60		240	
f _T	Current-Gain—Bandwidth Product	I _C = 5mA ; V _{CE} = 10V	800	1100		MHz
C _{OB}	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f= 1.0MHz			1.5	pF
t _{bb'} • CC	Base Time Constant	I _C = 5mA ; V _{CB} = 10V;f= 31.9MHz		10	15	ps

Ordering information

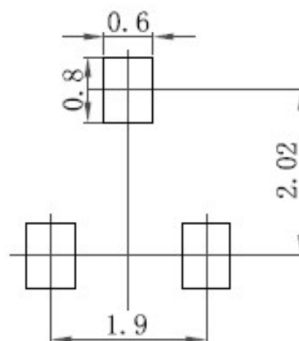
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
E	1.9		75	
E1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



Disclaimer

The information presented in this document is for reference only. Guangdong Youfeng Microelectronics 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 which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), YFW 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 <https://www.yfwdiode.com>, or consult YFW sales office for further assistance.