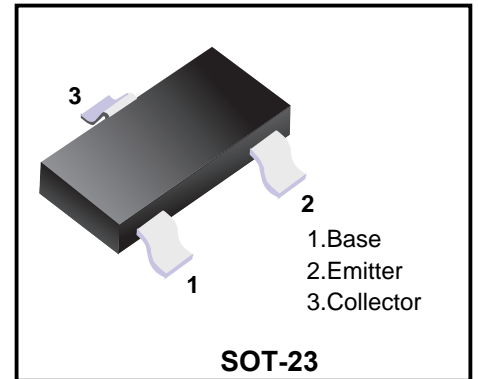


PNP Transistors

Features

- Excellent hFE Linearity
- Low Noise
- Complementary to KTC3875



Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	-50	V
Collector - Emitter Voltage	V _{CE0}	-50	
Emitter - Base Voltage	V _{EB0}	-5	
Collector Current - Continuous	I _c	-150	mA
Base Current	I _B	-30	
Collector Power Dissipation	P _c	150	mW
Thermal Resistance From Junction To Ambient	R _{θJA}	833	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{stg}	-55 to 150	

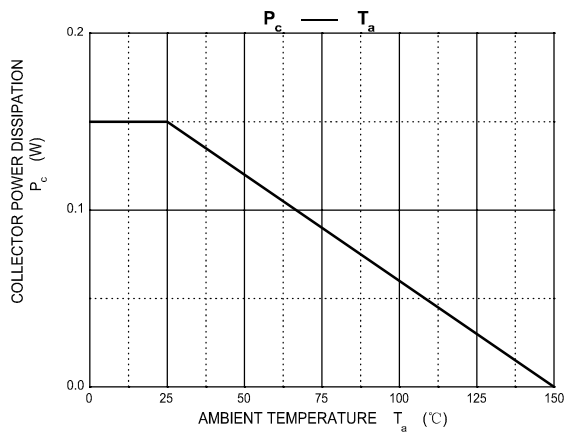
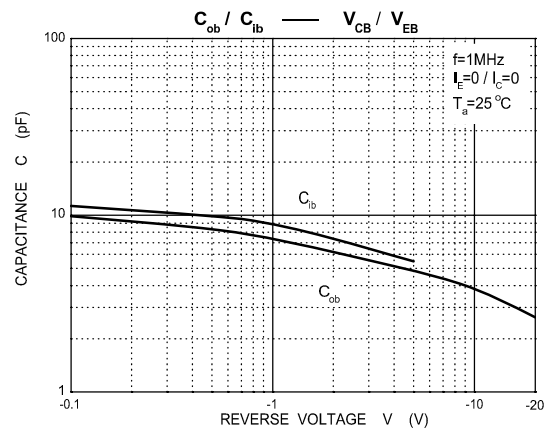
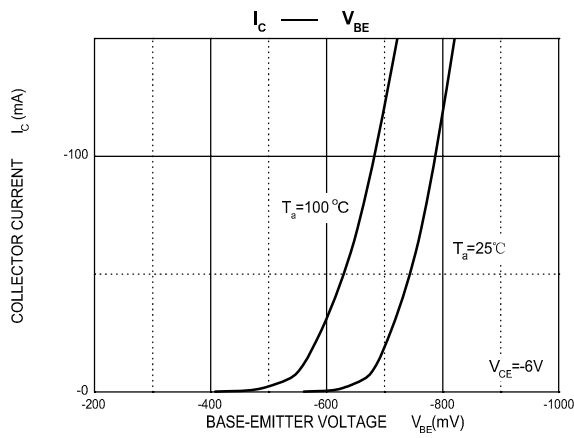
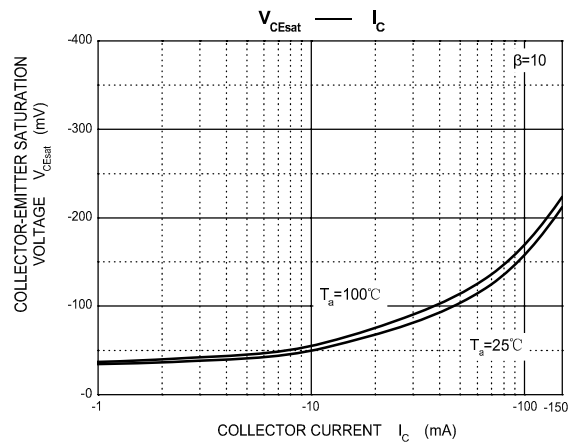
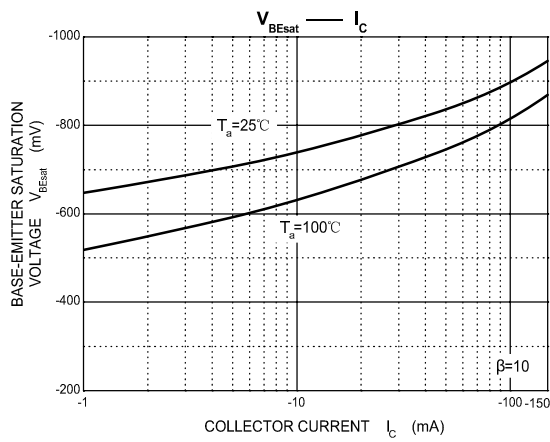
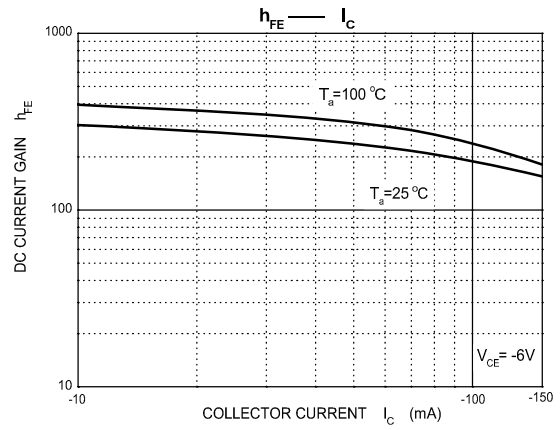
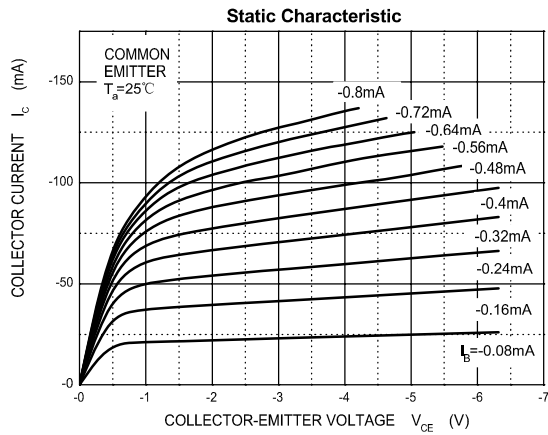
Electrical Characteristics (Ta=25°C unless otherwise specified.)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CB0}	I _c = -100 μA, I _E =0	-50			V
Collector- emitter breakdown voltage	V _{CE0}	I _c = -1 mA, I _B =0	-50			
Emitter - base breakdown voltage	V _{EB0}	I _E = -100 μA, I _c =0	-5			
Collector-base cut-off current	I _{CB0}	V _{CB} = -50 V, I _E =0			-100	nA
Emitter cut-off current	I _{EB0}	V _{EB} = -5V, I _c =0			-100	
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =-100 mA, I _B =-10mA			-0.3	V
Base - emitter saturation voltage	V _{BE(sat)}	I _c =-100 mA, I _B =-10mA			-1.2	
DC current gain	h _{FE}	V _{CE} = -6V, I _c = -2mA	70		400	
Collector output capacitance	C _{ob}	V _{CB} = -10V, I _E = 0,f=1MHz			7	pF
Transition frequency	f _T	V _{CE} = -10V, I _c = -1mA	80			MHz

hFE Classification

Type	KTA1504-O	KTA1504-Y	KTA1504-G
Range	70-140	120-240	200-400
Marking	ASO	ASY	ASG

Typical Characteristics



Ordering information

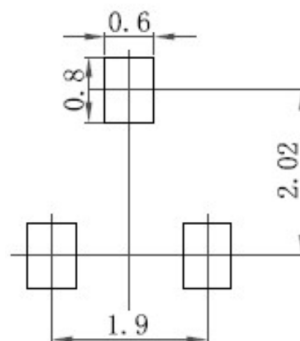
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

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.