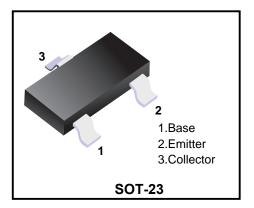


NPN Transistors



Features

- High hFE
- Low noise
- Complementary to KTA1504

Parameter	Symbol	Rating	Unit	
Collector - Base Voltage	Vсво	60		
Collector - Emitter Voltage	VCEO	50	V	
Emitter - Base Voltage	Vebo	5		
Collector Current - Continuous	lc	150	mA	
Collector Power Dissipation	Pc	150	mW	
Junction Temperature	ТJ	150	÷.	
Storage Temperature Range	Tstg	-55 to 150	C	

Absolute Maximum Ratings (Ta=25℃)

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

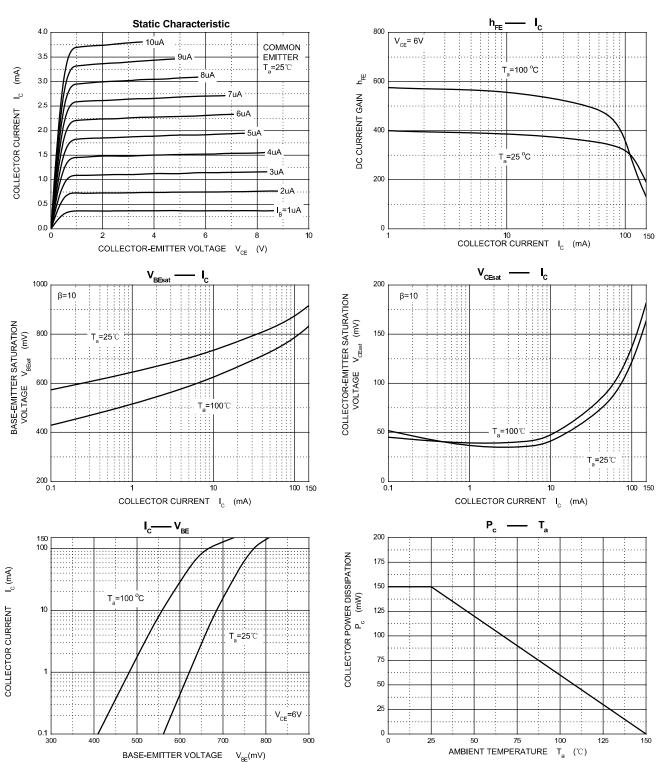
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector- base breakdown voltage	Vсво	Ic= 100 μA, IE= 0	60			
Collector- emitter breakdown voltage	Vceo	Ic= 1 mA, I _B = 0	50			V
Emitter - base breakdown voltage	Vebo	IE= 100 μ A, IC= 0	5			
Collector-base cut-off current	Сво	Vcb= 60 V , IE= 0			100	n۸
Emitter cut-off current	EBO	ево Veb= 5V , Ic=0			100	nA
Collector-emitter saturation voltage	VCE(sat)	Ic=100 mA, Iв=10mA			0.25	v
Base - emitter saturation voltage	VBE(sat)	Ic=100 mA, IB=10mA			1	v
DC current gain	hFE	VCE= 6V, IC= 2mA	70		700	
Noise figure	NF	Vce=6V,Ic=0.1mA,Rg=10kΩ,f=1KHZ		1	10	dB
Collector output capacitance	Cob	Vсв= 10V, IE= 0,f=1MHz			3.5	pF
Transition frequency	fτ	VCE= 10V, IC= 1mA	80			MHz

h_{FE} Classification

Туре	KTC3875-O	KTC3875-Y	KTC3875-G	KTC3875-L
Range	70-140	120-240	200-400	350-700
Marking	ALO	ALY	ALG	ALL



Typical Characteristics



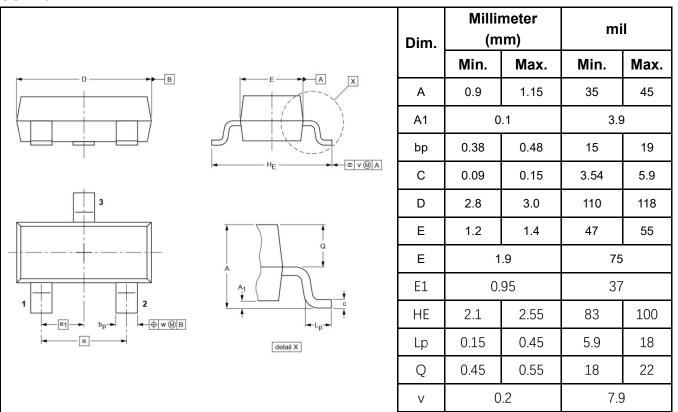


Ordering information

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

Package Dimensions

SOT-23

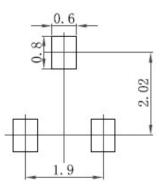


The recommended mounting pad size

W

0.1

4







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 with 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.