

(de)

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KTC3876-Y KTC3876-GR

Features

- High h_{FE} and Low Noise
- Complementary to KTA1505
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	30	V
V_{CBO}	Collector-Base Voltage	35	V
V_{EBO}	Emitter-Base Voltage	5.0	V
I _C	Collector Current	500	mA
Pc	Collector power dissipation	200	mW
T _J	Junction Temperature	-55 to +150	$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

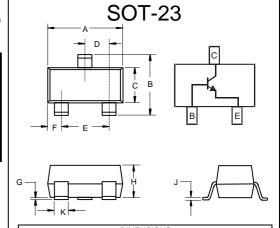
Symbol	Parameter	Min	Тур	Max	Units
OFF CHARACTERISTICS					
I _{CBO}	Collector-Base Cutoff Current (V _{CB} =35Vdc,I _E =0)			0.1	uAdc
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =5.0Vdc, I _C =0)			0.1	uAdc

ON CHARACTERISTICS

h _{FE}	DC Current gain ⁽¹⁾ (I _C =100mAdc, V _{CE} =1.0Vdc)	120		400	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =100mAdc, I _B =10mAdc)			0.25	Vdc
V_{BE}	Base-Emitter Voltage (V _{CE} =1.0Vdc,I _B =100mAdc)			1.0	Vdc
f _T	Transistor Frequency (V _{CE} =6Vdc, I _C =20mAdc)		300		MHz
C_{ob}	Collector Output Capacitance (V _{CB} =6Vdc, I _E =0, f=1.0MHz)		2.0	3.5	pF

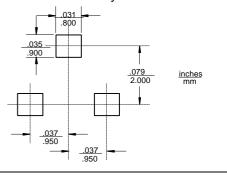
(1) h_{FE} Classification Y: 120~240(Marking: WY), GR: 200~400(Marking: WG)

Epitaxial Planar NPN Transistors



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.110	.120	2.80	3.04		
В	.083	.098	2.10	2.64		
С	.047	.055	1.20	1.40		
D	.035	.041	.89	1.03		
Е	.070	.081	1.78	2.05		
F	.018	.024	.45	.60		
G	.0005	.0039	.013	.100		
Ι	.035	.044	.89	1.12		
J	.003	.007	.085	.180		
K	.015	.020	.37	.51		

Suggested Solder Pad Layout





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Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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