

KTA1504-Y-TP Datasheet

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DiGi Electronics Part Number KTA1504-Y-TP-DG

Manufacturer Micro Commercial Co

Manufacturer Product Number KTA150

Detailed Description

KTA1504-Y-TP

Description

TRANS PNP 50V 0.15A SOT23

Bipolar (BJT) Transistor PNP 50 V 150 mA 80MHz 15 0 mW Surface Mount SOT-23

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:			
KTA1504-Y-TP	Micro Commercial Co			
Series:	Product Status:			
	Obsolete			
Transistor Type:	Current - Collector (Ic) (Max):			
PNP	150 mA			
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:			
50 V	300mV @ 10mA, 100mA			
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:			
100nA (ICBO)	120 @ 2mA, 6V			
Power - Max:	Frequency - Transition:			
150 mW	80MHz			
Operating Temperature:	Mounting Type:			
-55°C ~ 150°C (TJ)	Surface Mount			
Package / Case:	Supplier Device Package:			
TO-236-3, SC-59, SOT-23-3	SOT-23			
Base Product Number:				
KTA1504				

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
ECCN:	HTSUS:
EAR99	8541.21.0095



Features

- Complementary to KTC3875
- · Low Noise
- Halogen Free. "Green" Device (Note 1)
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

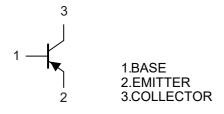
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient

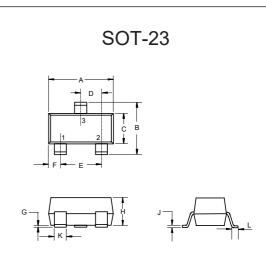
Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	V
Continuous Collector Current	I _C	-150	mA
Power Dissipation	P _D	150	mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

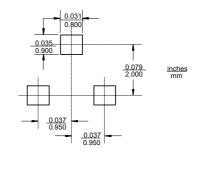


PNP Silicon Epitaxial Transistors



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

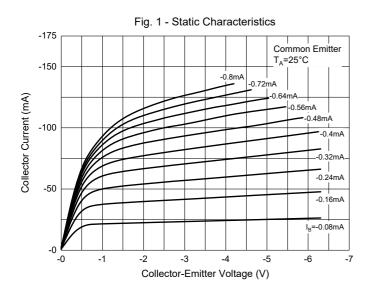
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-50			V	I _C =-100μA, I _E =0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-50			V	I _C =-1mA, I _B =0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	I _E =-100μA, I _C =0
Collector-Base Cutoff Current	I _{CBO}			-100	nA	V_{CB} =-50V, I_E =0
Emitter-Base Cutoff Current	I _{EBO}			-100	nA	V_{EB} =-5V, I_C =0
DC Current Gain	h _{FE}	70		400		V _{CE} =-6V, I _C =-2mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}			-0.3	V	I _C =-100mA, I _B =-10mA
Transition Frequency	f _T	80			MHz	V _{CE} =-10V,I _C =-1mA
Collector-Base Capacitance	C _{ob}			7	pF	V_{CB} =-10V, I_E =0, f =1MHz

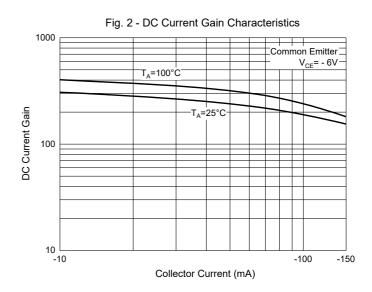
Classification of h_{FE}

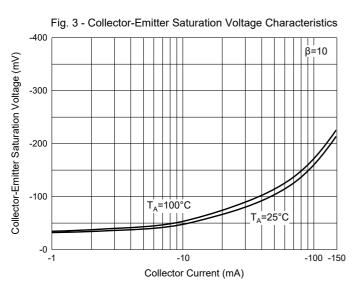
Rank	0	Y	GR
Range	70-140	120-240	200-400
Marking	ASO	ASY	ASG

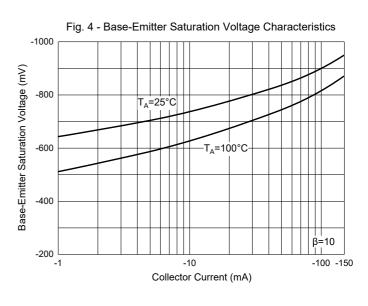


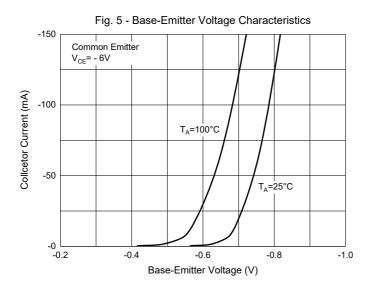
Curve Characteristics

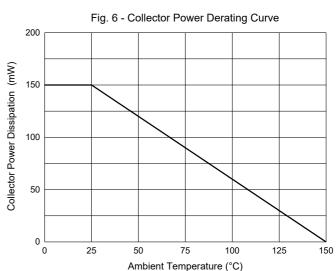














Ordering Information

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

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