

## **Features**

- 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

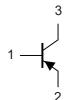
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V <sub>CBO</sub>	-40	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-40	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Continuous Collector Current	I <sub>C</sub>	-600	mA
Power Dissipation	P <sub>D</sub>	200	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.

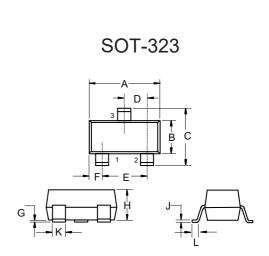
## Marking: K3T

### **Internal Structure**



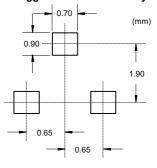
1.BASE 2.EMITTER 3.COLLECTOR

# PNP Small Signal Transistors



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
Е	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

## Suggested Solder Pad Layout



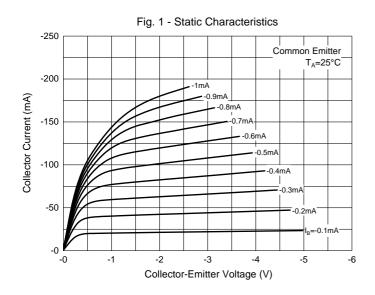


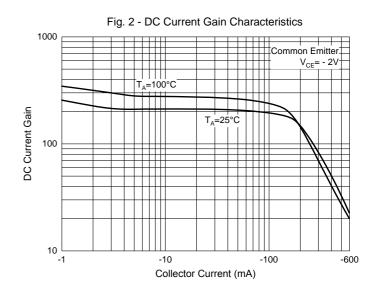
## Electrical Characteristics @ T<sub>A</sub>=25°C Unless Otherwise Specified

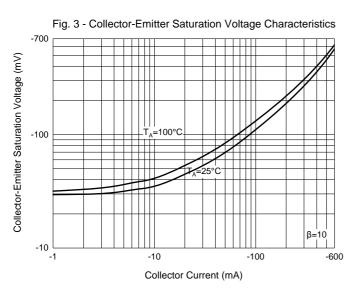
Parameter	Symbol	Min	Тур	Max	Units	Conditions	
Collector-Base Breakdown Voltage	V <sub>(BR)CBO</sub>	-40			V	I <sub>C</sub> =-100μA, I <sub>E</sub> =0	
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	-40			V	I <sub>C</sub> =-1mA, I <sub>B</sub> =0	
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	-5			V	I <sub>E</sub> =-100μA, I <sub>C</sub> =0	
Collector Cutoff Current	I <sub>CBO</sub>			-0.1	μA	$V_{CB}$ =-35V, $I_E$ =0	
Collector Cutoff Current	I <sub>CEO</sub>			-0.1	μA	V <sub>CE</sub> =-35V, I <sub>B</sub> =0	
Emitter Cutoff Current	I <sub>EBO</sub>			-0.1	μA	V <sub>EB</sub> =-4V, I <sub>C</sub> =0	
DC Current Gain	h <sub>FE</sub>	100		300		V <sub>CE</sub> =-2V, I <sub>C</sub> =-150mA	
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			-0.4	V	I <sub>C</sub> =-150mA, I <sub>B</sub> =-15mA	
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>			-0.95	V	I <sub>C</sub> =-150mA, I <sub>B</sub> =-15mA	
Transition Frequency	f <sub>T</sub>	200			MHz	V <sub>CE</sub> =-10V, I <sub>C</sub> =-20mA, f=100MHz	
Delay Time	t <sub>d</sub>			15	ns	V <sub>CC</sub> =-30V,I <sub>C</sub> =-150μA,	
Rise Time	t <sub>r</sub>			20	ns	$V_{BE(off)}$ =-2V, $I_{B1}$ =-15mA	
Storage Time	t <sub>s</sub>			225	ns	V <sub>CC</sub> =-30V, I <sub>C</sub> =-150mA,	
Fall Time	t <sub>f</sub>			30	ns	I <sub>B1</sub> =I <sub>B2</sub> =-15mA	
Output Capacitance	C <sub>ob</sub>			8.5	pF	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz	

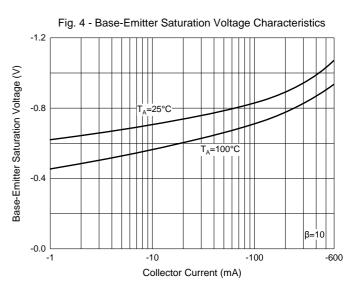


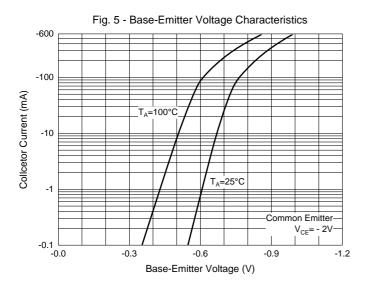
## **Curve Characteristics**

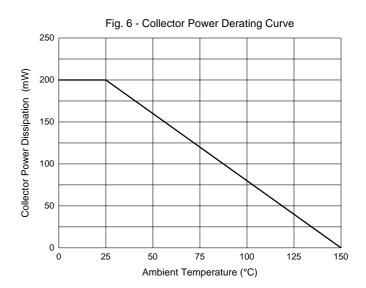














## **Ordering Information**

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

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