



Micro Commercial Components

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# MMST4403

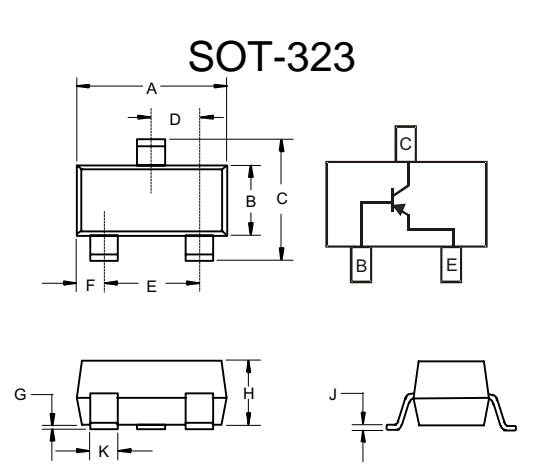
## Features

- Power dissipation: 200mW ( $T_{amb}=25^{\circ}C$ )
- Collector current: -0.6A
- Marking : K3T
- Operating and Storage junction temperature range  
 -55°C to + 150°C
- Case Material: Molded Plastic. UL Flammability  
 Classification Rating 94V-0 and MSL Rating 1

## PNP Small Signal Transistors

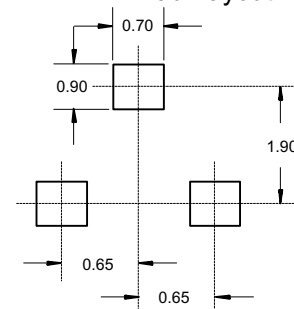
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units	
<b>OFF CHARACTERISTICS <sup>(2)</sup></b>					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=-1.0mA, I_B=0$ )	-40	---	Vdc	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=-100\mu A, I_E=0$ )	-40	---	Vdc	
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ( $I_E=-100\mu A, I_C=0$ )	-5.0	---	Vdc	
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=-35Vdc, I_E=0Vdc$ )	---	-0.1	$\mu A$ dc	
$I_{CEO}$	Collector Cutoff Current ( $V_{CE}=-35Vdc, I_B=0Vdc$ )	---	-0.1	$\mu A$ dc	
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=-4Vdc, I_C=0Vdc$ )	---	-0.1	$\mu A$ dc	
$h_{FE}$	DC Current Gain ( $I_C=-150mA, V_{CE}=-2Vdc$ )	100	300	---	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=-150mA, I_B=-15mA$ )	---	-0.4	Vdc	
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ( $I_C=-150mA, I_B=-15mA$ )	---	-0.95	Vdc	
$f_T$	Current Gain-Bandwidth Product ( $V_{CE}=-10Vdc, I_C=-20mA, f=100MHz$ )	200	---	MHz	
$C_{ob}$	Output Capacitance ( $V_{CB}=-10Vdc, f=1.0MHz, I_E=0$ )	---	8.5	pF	
$t_d$	Delay Time	$V_{CC}=-30V, I_C=-150\mu A,$	---	15	ns
$t_r$	Rise Time	$V_{BE(off)}=-2V, I_{B1}=15mA$	---	20	ns
$t_s$	Storage Time	$V_{CC}=-30V, I_C=-150mA,$	---	225	ns
$t_f$	Fall Time	$I_{B1}=I_{B2}=-15mA$	---	30	ns



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.079	.087	2.00	2.20	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.012	.016	.30	.40	

### Suggested Solder Pad Layout





TM

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## Ordering Information

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

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