



Micro Commercial Components

Micro Commercial Components  
 20736 Marilla Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

# MMST5551

## Features

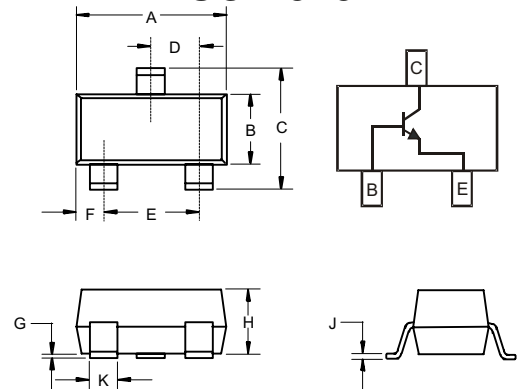
- Power dissipation: 200mW ( $T_{amb}=25^{\circ}C$ )
- Collector current: 0.2A
- Marking : K4N
- Operating and Storage junction temperature range  
 -55°C to + 150°C
- Case Material:Molded Plastic. UL Flammability  
 Classificatio Rating 94-0 and MSL Rating 1

## NPN Small Signal Transistors

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

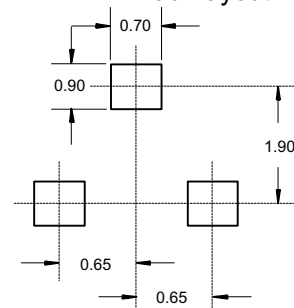
Symbol	Parameter	Min	Max	Units
<b>OFF CHARACTERISTICS <sup>(2)</sup></b>				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=1.0mA$ , $I_B=0$ )	160	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=100\mu A$ , $I_E=0$ )	180	---	Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ( $I_E=10\mu A$ , $I_C=0$ )	5.0	---	Vdc
$I_{CEO}$	Collector Cutoff Current ( $V_{CB}=35Vdc$ , $I_E=0Vdc$ )	---	50	nAdc
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=5Vdc$ , $I_C=0Vdc$ )	---	50	nAdc
$h_{FE}$	DC Current Gain ( $I_C=1mA$ , $V_{CE}=5Vdc$ ) ( $I_C=10mA$ , $V_{CE}=5Vdc$ ) ( $I_C=50mA$ , $V_{CE}=5Vdc$ )	80 80 30	--- 250 ---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=10mA$ , $I_B=1mA$ ) ( $I_C=50mA$ , $I_B=5mA$ )	---	0.15 0.2	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ( $I_C=10mA$ , $I_B=1mA$ ) ( $I_C=50mA$ , $I_B=5mA$ )	---	1 1	Vdc
$f_T$	Current Gain-Bandwidth Product ( $V_{CE}=10Vdc$ , $I_C=20mA$ , $f=100MHz$ )	100	300	MHz
$C_{ob}$	Output Capacitance ( $V_{CB}=10Vdc$ , $f=1.0MHz$ , $I_E=0$ )	---	6	pF
NF	Noise Figure ( $V_{CE}=5V$ , $I_C=0.2mA$ , $f=1KHz$ , $R_g=10\Omega$ )	---	8	dB

### SOT-323



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





Micro Commercial Components

## Ordering Information

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

**\*\*\*IMPORTANT NOTICE\*\*\***

*Micro Commercial Components Corp* . reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes .  
*Micro Commercial Components Corp* . does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp* . and all the companies whose products are represented on our website, harmless against all damages.

**\*\*\*APPLICATIONS DISCLAIMER\*\*\***

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical, Aerospace or Military Applications.