

**Micro Commercial Components** 



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### **Features**

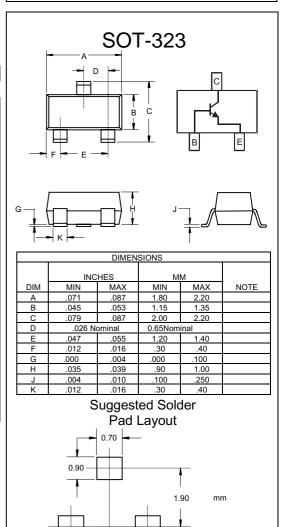
- Power dissipation: 200mW (T<sub>amb</sub>=25°C)
- Collector current: 0.2A
- Marking : K4N
- Operating and Storage junction temperature range -55℃ to + 150℃
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating

# Moisure Sensitivity Level 1 Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS <sup>(2)</sup>				
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =1.0mAdc, I <sub>B</sub> =0)	160		Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =100uAdc, I <sub>E</sub> =0)	180		Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I <sub>E</sub> =10uAdc, I <sub>C</sub> =0)	5.0		Vdc
I <sub>CEO</sub>	Collector Cutoff Current (V <sub>CB</sub> =35Vdc, I <sub>E</sub> =0Vdc)		50	nAdc
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =5Vdc, I <sub>C</sub> =0Vdc)		50	nAdc
h <sub>FE</sub>	DC Current Gain (I <sub>c</sub> =1mAdc, V <sub>cE</sub> =5Vdc) (I <sub>c</sub> =10mAdc, V <sub>cE</sub> =5Vdc) (I <sub>c</sub> =50mAdc, V <sub>cE</sub> =5Vdc)	80 80 30	 250 	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage ( $I_c=10$ mAdc, $I_B=1$ mAdc) ( $I_c=50$ mAdc, $I_B=5$ mAdc)		0.15 0.2	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage ( $I_c$ =10mAdc, $I_B$ =1mAdc) ( $I_c$ =50mAdc, $I_B$ =5mAdc)		1 1	Vdc
f <sub>T</sub>	Current Gain-Bandwidth Product (V <sub>CE</sub> =10Vdc, I <sub>C</sub> =20mAdc, f=100MHz)	100	300	MHz
C <sub>ob</sub>	Output Capacitance (V <sub>CB</sub> =10Vdc, f=1.0MHz, I <sub>E</sub> =0)		6	pF
NF	Noise Figure (V <sub>CE</sub> =5V, I <sub>C</sub> =0.2mA, f=1KHz, R <sub>g</sub> =10 Ω)		8	dB

## **NPN Small Signal Transistors**

**MMST5551** 



0.65

0.65

## www.mccsemi.com



### **Ordering Information :**

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

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