

**Micro Commercial Components** 

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### **Features**

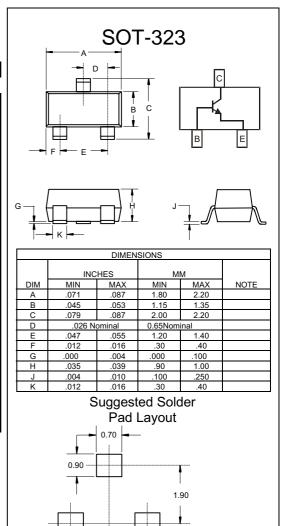
- Power dissipation: 200mW (T<sub>amb</sub>=25°C)
- Collector current: 0.6A
- Marking : K3X
- Operating and Storage junction temperature range  $-55\,^\circ\!\!\mathbb{C}$  to + 150 $^\circ\!\!\mathbb{C}$
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

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

Symbol	P	arameter	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)		40		Vdc	
V <sub>(BR)CBO</sub>	Collector-Base E (I <sub>c</sub> =100uAdc, I	60		Vdc		
V <sub>(BR)EBO</sub>	Collector-Emitter Breakdown Voltage (I <sub>E</sub> =100uAdc, I <sub>C</sub> =0)		6.0		Vdc	
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =35Vdc, I <sub>E</sub> =0Vdc)			0.1	µAdc	
I <sub>CEO</sub>	Collector Cutoff Current (V <sub>CE</sub> =35Vdc, I <sub>B</sub> =0Vdc)			0.1	µAdc	
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =5Vdc, I <sub>C</sub> =0Vdc)			0.1	µAdc	
h <sub>FE</sub>	DC Current Gain (I <sub>c</sub> =150mAdc, V <sub>CE</sub> =1.0Vdc) (I <sub>c</sub> =500mAdc, V <sub>CE</sub> =2.0Vdc)		100 40	300		
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage $(I_c=150 \text{mAdc}, I_B=15 \text{mAdc})$			0.4	Vdc	
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage (I <sub>C</sub> =150mAdc, I <sub>B</sub> =15mAdc)			0.95	Vdc	
f⊤	Current Gain-Bandwidth Product (V <sub>CE</sub> =10Vdc, I <sub>C</sub> =20mAdc, f=100MHz)		250		MHz	
C <sub>ob</sub>	Output Capacitance (V <sub>CB</sub> =10Vdc, f=1.0MHz, I <sub>E</sub> =0)			6.5	pF	
t <sub>d</sub>	Delay Time	V <sub>CC</sub> =30V,I <sub>C</sub> =150uA,		15	ns	
tr	Rise Time	V <sub>BE(off)</sub> =2V,I <sub>B1</sub> =15mA		20	ns	
ts	Storage Time	$V_{cc}=30V, I_{c}=150mA,$		225	ns	
t <sub>f</sub>	Fall Time	I <sub>B1</sub> =I <sub>B2</sub> =15mA		30	ns	

# NPN Small Signal Transistors

**MMST4401** 



0.65

0.65

www.mccsemi.com



## **Ordering Information**

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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