



Micro Commercial Components

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# MMST5401

## Features

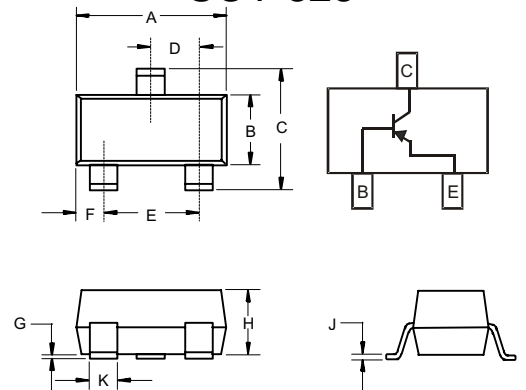
- Power dissipation: 200mW ( $T_{amb}=25^{\circ}C$ )
- Collector current: -0.2A
- Marking : K4M
- Operating and Storage junction temperature range  
 -55°C to + 150°C
- Case Material:Molded Plastic. UL Flammability  
 Classificatio Rating 94-0 and MSL Rating 1

## PNP Small Signal Transistors

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

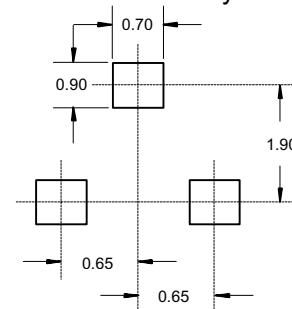
Symbol	Parameter	Min	Max	Units
<b>OFF CHARACTERISTICS <sup>(2)</sup></b>				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=-1.0mA_{dc}$ , $I_B=0$ )	-150	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=-100\mu A_{dc}$ , $I_E=0$ )	-160	---	Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ( $I_E=-10\mu A_{dc}$ , $I_C=0$ )	-5.0	---	Vdc
$I_{CEO}$	Collector Cutoff Current ( $V_{CB}=-120V_{dc}$ , $I_E=0V_{dc}$ )	---	-50	nAdc
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=-3V_{dc}$ , $I_C=0V_{dc}$ )	---	-50	nAdc
$h_{FE}$	DC Current Gain ( $I_C=-1mA_{dc}$ , $V_{CE}=-5V_{dc}$ ) ( $I_C=-10mA_{dc}$ , $V_{CE}=-5V_{dc}$ ) ( $I_C=-50mA_{dc}$ , $V_{CE}=-5V_{dc}$ )	50 60 50	--- 240 ---	--- --- ---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C=-10mA_{dc}$ , $I_B=-1mA_{dc}$ ) ( $I_C=-50mA_{dc}$ , $I_B=-5mA_{dc}$ )	---	-0.2 -0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ( $I_C=-10mA_{dc}$ , $I_B=-1mA_{dc}$ ) ( $I_C=-50mA_{dc}$ , $I_B=-5mA_{dc}$ )	---	-1 -1	Vdc
$f_T$	Current Gain-Bandwidth Product ( $V_{CE}=-10V_{dc}$ , $I_C=-10mA_{dc}$ , $f=100MHz$ )	100	300	MHz
$C_{ob}$	Output Capacitance ( $V_{CB}=-10V_{dc}$ , $f=1.0MHz$ , $I_E=0$ )	---	6	pF
NF	Noise Figure ( $V_{CE}=-5V$ , $I_C=-0.2mA$ , $f=1KHz$ , $R_g=10\Omega$ )	---	8	dB

### SOT-323



DIM	DIMENSIONS				NOTE
	INCHES		MM		
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





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## Ordering Information

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

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