



Micro Commercial Components

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MMST5401

Features

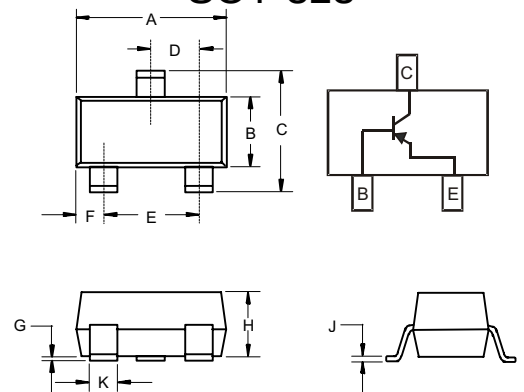
- Power dissipation: 200mW ($T_{amb}=25^{\circ}\text{C}$)
- Collector current: -0.2A
- Marking : K4M
- Operating and Storage junction temperature range
-55°C to + 150°C
- Case Material:Molded Plastic. UL Flammability
Classificatio Rating 94-0 and MSL Rating 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

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

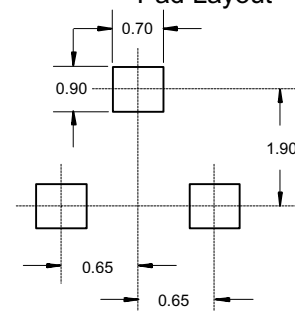
PNP Small Signal Transistors

SOT-323



DIMENSIONS					
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



Ordering Information

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

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