

M·C·C·

Micro Commercial Components™



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MMST4401

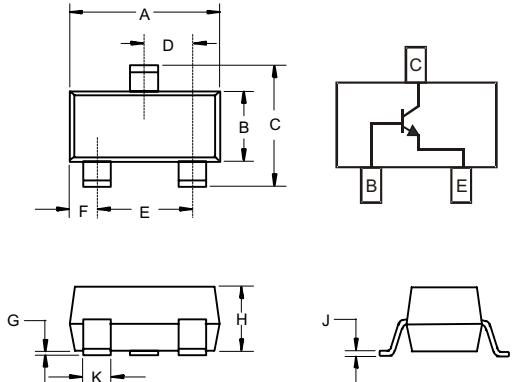
Features

- Halogen free available upon request by adding suffix "-HF"
- Power dissipation: 200mW ($T_{amb}=25^{\circ}\text{C}$)
- Collector current: 0.6A
- Marking : K3X
- Operating and Storage junction temperature range
 -55°C to $+150^{\circ}\text{C}$
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

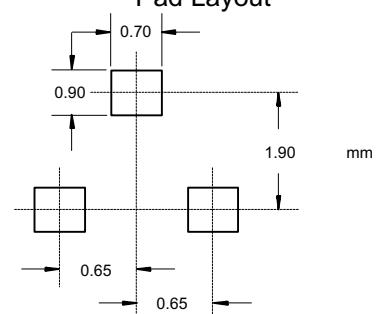
Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS⁽²⁾				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=1.0\text{mA}$, $I_B=0$)	40	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\text{uA}$, $I_E=0$)	60	---	Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ($I_E=100\text{uA}$, $I_C=0$)	6.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CE}=35\text{Vdc}$, $I_E=0\text{Vdc}$)	---	0.1	μA
I_{CEO}	Collector Cutoff Current ($V_{CE}=35\text{Vdc}$, $I_B=0\text{Vdc}$)	---	0.1	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB}=5\text{Vdc}$, $I_C=0\text{Vdc}$)	---	0.1	μA
h_{FE}	DC Current Gain ($I_C=150\text{mA}$, $V_{CE}=1.0\text{Vdc}$) ($I_C=500\text{mA}$, $V_{CE}=2.0\text{Vdc}$)	100 40	300 ---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=150\text{mA}$, $I_B=15\text{mA}$)	---	0.4	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=150\text{mA}$, $I_B=15\text{mA}$)	---	0.95	Vdc
f_T	Current Gain-Bandwidth Product ($V_{CE}=10\text{Vdc}$, $I_C=20\text{mA}$, $f=100\text{MHz}$)	250	---	MHz
C_{ob}	Output Capacitance ($V_{CE}=10\text{Vdc}$, $f=1.0\text{MHz}$, $I_E=0$)	---	6.5	pF
t_d	Delay Time	$V_{CC}=30\text{V}$, $I_C=150\text{uA}$, $V_{BE(off)}=2\text{V}$, $I_B=15\text{mA}$	---	15 ns
t_r	Rise Time		20	ns
t_s	Storage Time	$V_{CC}=30\text{V}$, $I_C=150\text{mA}$, $I_B=I_{B2}=15\text{mA}$	225 30	ns ns
t_f	Fall Time			

NPN Small Signal Transistors

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	.083	.096	2.10	2.45	
D	.026 Nominal		0.65 Nominal		
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	.006	.016	.15	.40	

Suggested Solder Pad Layout



Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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