



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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M·C·C·

Micro Commercial Components



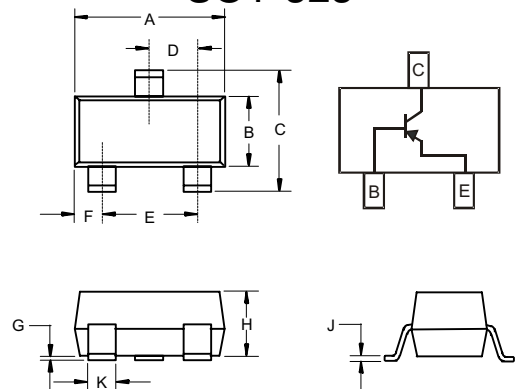
Micro Commercial Components
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MMST2907A**Features**

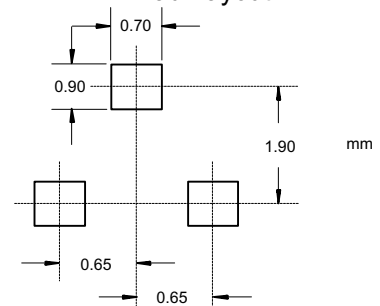
- Halogen free available upon request by adding suffix "-HF"
- Power dissipation: 200mW ($T_{amb}=25^{\circ}\text{C}$)
- Collector current: -0.6A
- Marking Code: K3F
- Operating and Storage junction temperature range
-55°C to +150°C
- Lead Free Finish/RoHS Compliant ("P" Suffix designates
RoHS Compliant. 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 =-10mA, I _B =0)	-60	---	Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-10uAdc, I _E =0)	-60	---	Vdc	
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (I _E =-10uAdc, I _C =0)	-5.0	---	Vdc	
I _{CBO}	Collector Cutoff Current (V _{CB} =-50Vdc, I _E =0Vdc)	---	-0.01	μAdc	
I _{CEO}	Collector Cutoff Current (V _{CE} =-35Vdc, I _B =0Vdc)	---	-0.05	μAdc	
I _{EBO}	Emitter Cutoff Current (V _{EB} =-3Vdc, I _C =0Vdc)	---	-0.01	μAdc	
h _{FE}	DC Current Gain (I _C =-150mA, V _{CE} =-10Vdc) (I _C =-1mA, V _{CE} =-10Vdc)	100 100	300 ---	--- ---	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =-500mA, I _B =-50mA)	---	-0.6	Vdc	
V _{BE(sat)}	Base-Emitter Saturation Voltage (I _C =-500mA, I _B =-50mA)	---	-1.2	Vdc	
f _T	Current Gain-Bandwidth Product (V _{CE} =-20Vdc, I _C =-50mA, f=100MHz)	200	---	MHz	
C _{ob}	Output Capacitance (V _{CB} =-10Vdc, f=1.0MHz, I _E =0)	---	8	pF	
t _d	Delay Time	V _{CC} =-30V, I _C =-150mA, V _{BE(off)} =-0.5V, I _{B1} =-15mA	---	10 25	ns ns
t _r	Rise Time		---		
t _s	Storage Time	V _{CC} =-30V, I _C =-150mA,	---	80	ns
t _f	Fall Time	I _{B1} =I _{B2} =-15mA	---	30	ns

PNP 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	.079	.087	2.00	2.20	
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	.012	.016	.30	.40	

Suggested Solder Pad Layout

Ordering Information :

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

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

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