

M.C.C.

Micro Commercial Components



Micro Commercial Components
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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

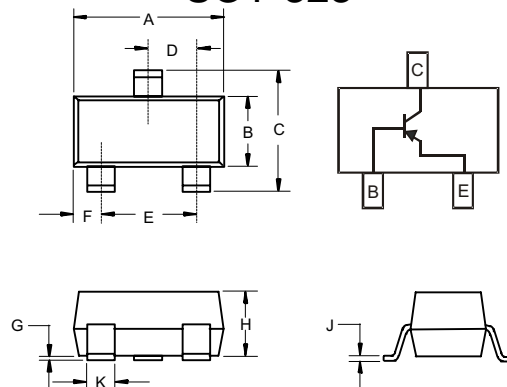
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS ⁽²⁾				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I _C =-10mA _{dc} , I _B =0)	-60	---	V _{dc}
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =-10μA _{dc} , I _E =0)	-60	---	V _{dc}
V _{(BR)EBO}	Collector-Emitter Breakdown Voltage (I _E =-10μA _{dc} , I _C =0)	-5.0	---	V _{dc}
I _{CBO}	Collector Cutoff Current (V _{CB} =-50V _{dc} , I _E =0V _{dc})	---	-0.01	μA _{dc}
I _{CEO}	Collector Cutoff Current (V _{CE} =-35V _{dc} , I _B =0V _{dc})	---	-0.05	μA _{dc}
I _{EBO}	Emitter Cutoff Current (V _{EB} =-3V _{dc} , I _C =0V _{dc})	---	-0.01	μA _{dc}
h _{FE}	DC Current Gain (I _C =-150mA _{dc} , V _{CE} =-10V _{dc}) (I _C =-1mA _{dc} , V _{CE} =-10V _{dc})	100 100	300 ---	---
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =-500mA _{dc} , I _B =-50mA _{dc})	---	-0.6	V _{dc}
V _{BE(sat)}	Base-Emitter Saturation Voltage (I _C =-500mA _{dc} , I _B =-50mA _{dc})	---	-1.2	V _{dc}
f _T	Current Gain-Bandwidth Product (V _{CE} =-20V _{dc} , I _C =-50mA _{dc} , f=100MHz)	200	---	MHz
C _{ob}	Output Capacitance (V _{CB} =-10V _{dc} , 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	ns
t _r	Rise Time		25	ns
t _s	Storage Time	V _{CC} =-30V, I _C =-150mA, I _{B1} =I _{B2} =-15mA	80	ns
t _f	Fall Time		30	ns

MMST2907A

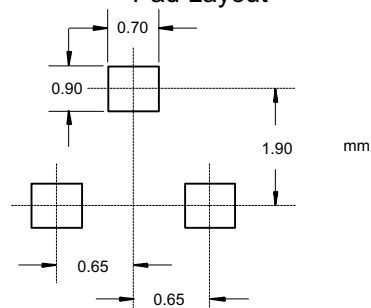
PNP Small Signal Transistors

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	.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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