

M.C.C.

Micro Commercial Components



Micro Commercial Components
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MMST2907A

Features

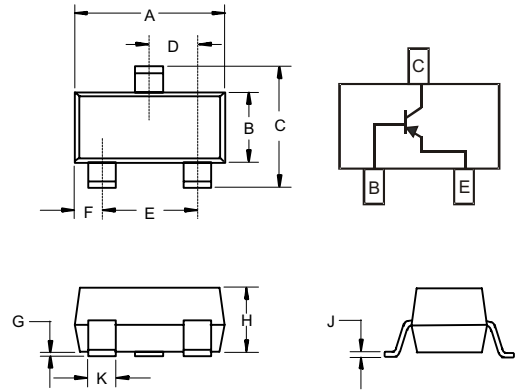
- Halogen free available upon request by adding suffix "-HF"
- Power dissipation: 200mW ($T_{amb}=25^{\circ}C$)
- Collector current: -0.6A
- Marking Code: K3F
- Operating and Storage junction temperature range
 -55°C to + 150°C
- Lead Free Finish/RoHS Compliant ("P" Suffix designates
 RoHS Compliant. 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 ($I_C=-10\mu A$, $I_E=0$)	-60	---	Vdc	
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ($I_E=-10\mu A$, $I_C=0$)	-5.0	---	Vdc	
I_{CBO}	Collector Cutoff Current ($V_{CB}=-50Vdc$, $I_E=0Vdc$)	---	-0.01	μA dc	
I_{CEO}	Collector Cutoff Current ($V_{CE}=-35Vdc$, $I_B=0Vdc$)	---	-0.05	μA dc	
I_{EBO}	Emitter Cutoff Current ($V_{EB}=-3Vdc$, $I_C=0Vdc$)	---	-0.01	μA dc	
h_{FE}	DC Current Gain ($I_C=-150mA$, $V_{CE}=-10Vdc$) ($I_C=-1mA$, $V_{CE}=-10Vdc$)	100	300	---	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=-500mA$, $I_B=-50mA$)	---	-1.6	Vdc	
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=-500mA$, $I_B=-50mA$)	---	-2.6	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	$V_{CC}=-30V$, $I_C=-150mA$,	---	10	ns
t_r	Rise Time	$V_{BE(off)}=-0.5V$, $I_{B1}=-15mA$	---	25	ns
t_s	Storage Time	$V_{CC}=-30V$, $I_C=-150mA$,	---	80	ns
t_f	Fall Time	$I_{B1}=I_{B2}=-15mA$	---	30	ns

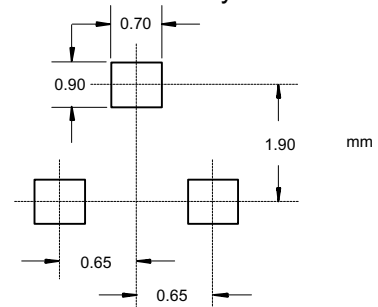
PNP Small Signal Transistors

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	.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





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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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