



Micro Commercial Components

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MMST2907A

Features

- 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
- Case Material: Molded Plastic. UL Flammability
 Classification Rating 94V-0 and MSL Rating 1

PNP Small Signal Transistors

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	---	Vdc	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=-10\mu A_{dc}$, $I_E=0$)	-60	---	Vdc	
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ($I_E=-10\mu A_{dc}$, $I_C=0$)	-5.0	---	Vdc	
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	300	---	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=-500mA_{dc}$, $I_B=-50mA_{dc}$)	---	-0.6	Vdc	
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=-500mA_{dc}$, $I_B=-50mA_{dc}$)	---	-1.2	Vdc	
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	$V_{CC}=-30V$, $I_C=-150mA$,	---	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

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		0.65Nominal		
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



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Ordering Information

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

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