



Micro Commercial Components

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 20736 Marilla Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

# MMST2907A

## Features

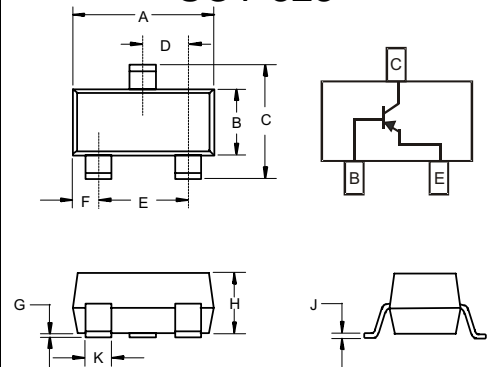
- Power dissipation: 200mW ( $T_{amb}=25^{\circ}C$ )
- Collector current: -0.6A
- Marking Code: K3F
- Operating and Storage junction temperature range  
 -55°C to + 150°C
- Case Material: Molded Plastic. UL Flammability  
 Classification Rating 94V-0 and MSL Rating 1

## PNP Small Signal Transistors

### Electrical Characteristics @ 25°C Unless Otherwise Specified

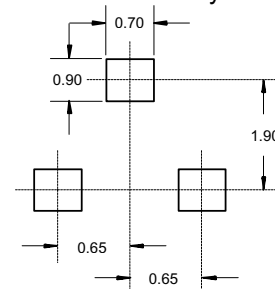
Symbol	Parameter	Min	Max	Units	
<b>OFF CHARACTERISTICS <sup>(2)</sup></b>					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ( $I_C=-10mA_{dc}, I_B=0$ )	-60	---	Vdc	
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=-10\mu A_{dc}, I_E=0$ )	-60	---	Vdc	
$V_{(BR)EBO}$	Collector-Emitter Breakdown 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	$\mu A_{dc}$	
$I_{CEO}$	Collector Cutoff Current ( $V_{CE}=-35V_{dc}, I_B=0V_{dc}$ )	---	-0.05	$\mu A_{dc}$	
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB}=-3V_{dc}, I_C=0V_{dc}$ )	---	-0.01	$\mu A_{dc}$	
$h_{FE}$	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	$V_{CC}=-30V, I_C=-150mA,$ $V_{BE(off)}=-0.5V, I_{B1}=-15mA$	---	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

### SOT-323



DIM	DIMENSIONS				NOTE
	INCHES		MM		
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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