



Micro Commercial Components

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MMST5551

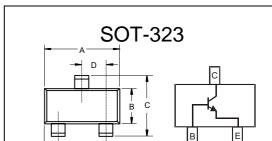
Features

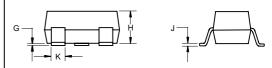
- Halogen free available upon request by adding suffix "-HF"
- Power dissipation: 200mW (T_{amb}=25 °C)
- Collector current: 0.2A
- Marking: K4N
- Operating and Storage junction temperature range -55°C to + 150°C
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating

Moisure Sensitivity Level 1 Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHAP	RACTERISTICS (2)			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I _c =1.0mAdc, I _B =0)	160		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I _C =100uAdc, I _E =0)	180		Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I _E =10uAdc, I _C =0)	5.0		Vdc
I _{CEO}	Collector Cutoff Current (V _{CB} =35Vdc, I _E =0Vdc)		50	nAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5Vdc, I _C =0Vdc)		50	nAdc
h _{FE}	DC Current Gain (I _C =1mAdc, V _{CE} =5Vdc) (I _C =10mAdc, V _{CE} =5Vdc) (I _C =50mAdc, V _{CE} =5Vdc)	80 80 30	250 	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =10mAdc, I _B =1mAdc) (I _C =50mAdc, I _B =5mAdc)		0.15 0.2	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (I_c =10mAdc, I_B =1mAdc) (I_c =50mAdc, I_B =5mAdc)		1	Vdc
f⊤	Current Gain-Bandwidth Product (V _{CE} =10Vdc, I _C =20mAdc, f=100MHz)	100	300	MHz
C_{ob}	Output Capacitance (V _{CB} =10Vdc, f=1.0MHz, I _E =0)		6	pF
NF	Noise Figure (V_{CE} =5 V , I_{C} =0.2 mA , f=1 KHz , R_{g} =10 Ω)		8	dB

NPN Small Signal Transistors





DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.071	.087	1.80	2.20			
В	.045	.053	1.15	1.35			
C	.079	.087	2.00	2.20			
D	.026 Nominal		0.65Nominal				
Е	.047	.055	1.20	1.40			
F	.012	.016	.30	.40			
G	.000	.004	.000	.100			
Ι	.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

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

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