



Micro Commercial Components

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MMST4401

Features

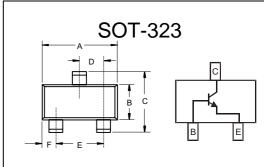
- Halogen free available upon request by adding suffix "-HF"
- Power dissipation: 200mW (T_{amb}=25 °C)
- Collector current: 0.6A
- Marking: K3X
- Operating and Storage junction temperature range
- -55°C to + 150°C

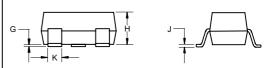
 Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Max	Units
OFF CHAF	RACTERISTICS (2)				
$V_{(BR)CEO}$	Collector-Emitte (I _C =1.0mAdc,	40		Vdc	
$V_{(BR)CBO}$	Collector-Base I (I _C =100uAdc,	60		Vdc	
$V_{(BR)EBO}$	Collector-Emitte (I _E =100uAdc,	6.0		Vdc	
I _{CBO}	Collector Cutoff (V _{CB} =35Vdc, I		0.1	μAdc	
I _{CEO}	Collector Cutoff (V _{CE} =35Vdc, I		0.1	μAdc	
I _{EBO}	Emitter Cutoff C (V _{EB} =5Vdc, I _C =0		0.1	μAdc	
h _{FE}	DC Current Gain				
	$(I_C=150 \text{mAdc}, V_{CE}=1.0 \text{Vdc})$		100	300	
	(I _C =500mAdc,	40			
$V_{\text{CE(sat)}}$	Collector-Emitte (I _C =150mAdc,		0.4	Vdc	
$V_{BE(sat)}$	Base-Emitter S (I _C =150mAdc,		0.95	Vdc	
f⊤	Current Gain-Bandwidth Product (V _{CE} =10Vdc, I _C =20mAdc, f=100MHz)		250		MHz
C _{ob}	Output Capacitance (V _{CB} =10Vdc, f=1.0MHz, I _E =0)			6.5	pF
t _d	Delay Time	V _{CC} =30V,I _C =150uA,		15	ns
t _r	Rise Time	$V_{BE(off)}=2V,I_{B1}=15mA$		20	ns
t _s	Storage Time	V _{CC} =30V, I _C =150mA,		225	ns
t _f	Fall Time	I _{B1} =I _{B2} =15mA		30	ns

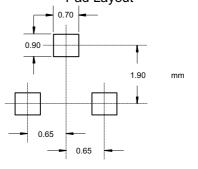
NPN Small Signal Transistors





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