

**Micro Commercial Components** 



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# 2SB1694

# **Features**

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- High DC Current Gain
- High Collector Current
- Low Collector-emitter Saturation Voltage
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
   Halogen free available upon request by adding suffix "-HF"

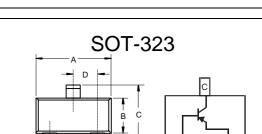
Maximum Ratings @ T<sub>a</sub> = 25℃(unless otherwise noted)

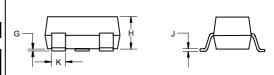
Symbol	Parameter	Value	Unit
Ic	Collector Current	-1.0	А
P <sub>D</sub>	Total Device Dissipation	0.2	W
TJ	Junction Temperature	150	$^{\circ}\!\mathbb{C}$
T <sub>STG</sub>	Storage Temperature Range	-55 to +150	$^{\circ}\!\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

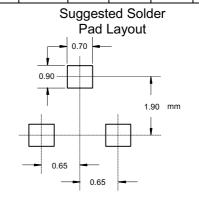
Symbol	Parameter	Min	Max	Unit		
OFF CHARACTERISTICS						
V(BR)CEO	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =-1mAdc,I <sub>B</sub> =0)	-30		V		
V(BR)CBO	Collector-Base Breakdown Voltage (I <sub>C</sub> =-10µAdc,I <sub>E</sub> =0)	-30		V		
V(BR)EBO	Collector-Base Breakdown Voltage (I <sub>E</sub> =-10µAdc,I <sub>C</sub> =0)	-6.0		V		
I <sub>CBO</sub>	Collector-Base Cutoff Current (V <sub>CB</sub> =-30Vdc, I <sub>E</sub> =0)		-0.1	μAdc		
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =-5.0Vdc, I <sub>C</sub> =0)		-0.1	μAdc		
ON CHARA	CTERISTICS					
hfe	DC Current Gain (I <sub>C</sub> =-100mAdc, V <sub>CE</sub> =-2.0Vdc)	270	680			
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-500mAdc, I <sub>B</sub> =-25mAdc)		-0.38	Vdc		
f⊤	Transition Frequency (VCE=-2Vdc,IC=-100mAdc,f=100MHZ)		320(typ)	MHZ		
Cob	Collector Output Capacitance (VCB=-10Vdc,IE=0,f=1MHZ)		7(typ)	PF		

# PNP Gneral Purpose Transistors





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





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## **Ordering Information:**

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

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

## \*\*\*IMPORTANT NOTICE\*\*\*

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