

Pb

**Micro Commercial Components** 

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## **Features**

- Halogen free available upon request by adding suffix "-HF"
- Power switching application
- Low frequency power amplifier application
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

## **Maximum Ratings**

Symbol	Rating	Rating	Unit
$V_{CEO}$	Collector-Emitter Voltage	-30	V
$V_{CBO}$	Collector-Base Voltage	-35	V
$V_{EBO}$	Emitter-Base Voltage	-5.0	V
l <sub>c</sub>	Collector Current, Continuous	-0.8	Α
P₀	Power Dissipation	0.2	W
TJ	Operating Junction Temperature -55 to +150		°С
T <sub>STG</sub>	Storage Temperature	-55 to +150	οС

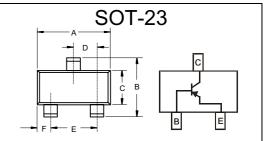
## Electrical Characteristics @ 25°C Unless Otherwise Specified

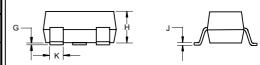
Symbol	Parameter	Min	Type	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* (I <sub>C</sub> =-10mAdc, I <sub>B</sub> =0)	-30			Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =-1mAdc, I <sub>E</sub> =0)	-35			Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I <sub>E</sub> =-1mAdc, I <sub>C</sub> =0)				Vdc
I <sub>CBO</sub>	Collector cut-off Current $(V_{CB}=-30Vdc, I_E=0)$ -0.1		-0.1	μAdc	
I <sub>EBO</sub>	Emitter cut-off Current (V <sub>EB</sub> =-5Vdc, I <sub>C</sub> =0			-0.1	μAdc
h <sub>FE</sub>	DC Current Gain (I <sub>C</sub> =-100mAdc, V <sub>CE</sub> =-1.0Vdc) (I <sub>C</sub> =-800mAdc, V <sub>CE</sub> =-1.0Vdc)	100 40		320	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-500mAdc, I <sub>B</sub> =-20mAdc)			-0.4	Vdc
$V_{BE}$	Base-Emitter Voltage (I <sub>c</sub> =-10mAdc, V <sub>cE</sub> =-1Vdc)	-0.5		-0.8	Vdc
f⊤	Transition Frequency (I <sub>C</sub> =-10mAdc, V <sub>CE</sub> =-5Vdc)		250		MHz
Cob	Collector output capacitance (I <sub>E</sub> =0, V <sub>CB</sub> =-10Vdc,f=1MHz)		13		pF

## CLASSIFICATION OF het(1)

Rank	0	Υ
Range	100-200	160-320
MARKING	Ю	IY

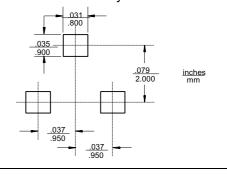
# PNP General Purpose Amplifier





DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

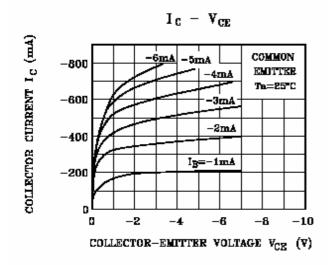
### Suggested Solder Pad Layout

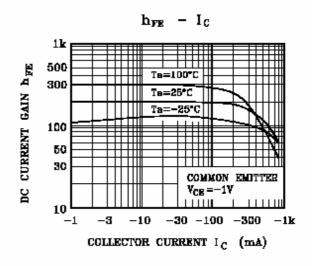


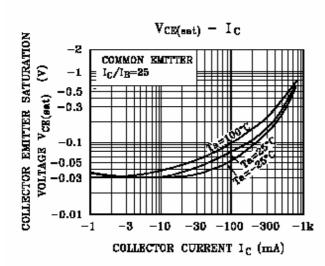


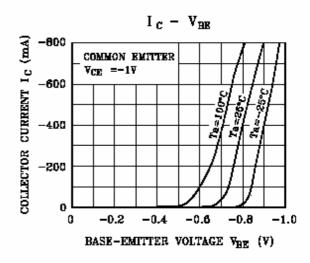
## 2SA1298

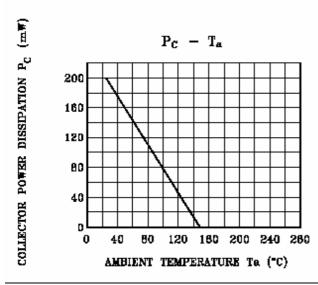
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## **Ordering Information:**

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

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

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