

**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# **PXT3906**

- 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
- Capable of 500mWatts of Power Dissipation
- Marking:2A

# **Maximum Ratings**

Symbol	Rating	Rating	Unit
$V_{CEO}$	Collector-Emitter Voltage	-40	V
$V_{CBO}$	Collector-Base Voltage	-40	>
$V_{EBO}$	Emitter-Base Voltage	-6.0	<b>V</b>
Ι <sub>C</sub>	Collector Current, Continuous	-0.2	Α
$P_{D}$	Power Dissipation	0.5	W
TJ	Operating Junction Temperature	-55 to +150	္ပ
$T_{STG}$	Storage Temperature	-55 to +150	οС

## Electrical Characteristics @ 25°C Unless Otherwise Specified

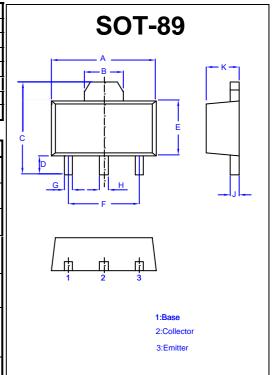
Symbol	Parameter	Min	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* (I <sub>C</sub> =-1.0mAdc, I <sub>B</sub> =0)	-40		Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =-10μAdc, I <sub>E</sub> =0)	-40		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( $I_E$ =-10 $\mu$ Adc, $I_C$ =0)	9		Vdc
I <sub>CBO</sub>	Collector cut-off Current (V <sub>CB</sub> =-30Vdc, I <sub>E</sub> =0		-0.05	uAdc
I <sub>EBO</sub>	Emitter cut-off Current (V <sub>EB</sub> =-6Vdc, I <sub>C</sub> =0		-0.05	uAdc
h <sub>FE</sub>	DC Current Gain* (I <sub>c</sub> =-10mAdc, V <sub>CE</sub> =-1.0Vdc) (I <sub>c</sub> =-50mAdc, V <sub>CE</sub> =-1.0Vdc) (I <sub>c</sub> =-100mAdc, V <sub>CE</sub> =-1.0Vdc)	100 60 30	300	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-10mAdc, I <sub>B</sub> =-1.0mAdc) (I <sub>C</sub> =-50mAdc, I <sub>B</sub> =-5.0mAdc)		-0.25 -0.4	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage (I <sub>c</sub> =-10mAdc, I <sub>B</sub> =-1.0mAdc) (I <sub>c</sub> =-50mAdc, I <sub>B</sub> =-5.0mAdc)	-0.65	-0.85 -0.95	Vdc
C <sub>obo</sub>	Outpuut Capacitance (VcB=-5.0Vdc, f=1.0MHz,IE=0)		4.5	pF
Cibo	Inpuut Capacitance (V <sub>EB</sub> =-0.5Vdc, f=1.0MHz,I <sub>C</sub> =0)		10	pF
f⊤	Current Gain-Bandwidth Product (I <sub>C</sub> =-10mAdc, V <sub>CE</sub> =-20Vdc, f=100MHz)	250		MHz
NF	Noise Figure (Vc==-5.0V, f=1.0kHz,L=-100uA,Rs=1.0K)		4.0	dB

# SWITCHING CHARACTERISTICS

$t_d$	Delay Time	(V <sub>CC</sub> =-3.0Vdc, V <sub>BE</sub> =-0.5Vdc	35	ns
t <sub>r</sub>	Rise Time	$I_C$ =-10mAdc, $I_{B1}$ =-1.0mAdc)	35	ns
$t_s$	Storage Time	(V <sub>CC</sub> =-3.0Vdc, I <sub>C</sub> =-10mAdc	225	ns
t <sub>f</sub>	Fall Time	I <sub>B1</sub> =I <sub>B2</sub> =-1.0mAdc )	75	ns

<sup>\*</sup>Pulse Width ≤ 300µs, Duty Cycle ≤ 2.0%

# **PNP General Purpose Amplifier**



		DIMENS	SINS		
DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	
Α	.173	.181	4.39	4.60	
В	.063	.071	1.60	1.80	
С	.154	.165	3.91	4.19	
D	.031	.039	0.80	1.00	
Е	.092	.100	2.34	2.54	
F	.118		3.00		TYP
G	.013	.019	0.33	0.48	
Н	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	



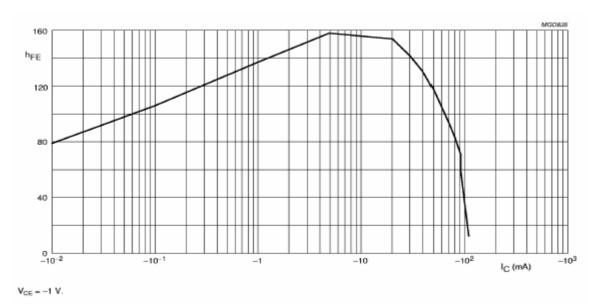


Fig.2 DC current gain; typical values.



#### **Micro Commercial Components**

## **Ordering Information:**

Device	Packing
Part Number-TP	Tape&Reel 1Kpcs/Reel

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