

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

PXT2222A

0.5W **NPN General Purpose Amplifier**

Halogen free available upon request by adding suffix "-HF" 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

eatures

- Iсм: 0.6A
- Operating and Storage Junction Temperatures: -55°C to 150°C
- Marking:1P

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	F	Parameter		Max	Units
OFF CHARA	CTERISTICS				
V _{(BR)CEO}	Collector-Emitter	40		Vdc	
$V_{(BR)CBO}$	Collector-Base E	75		Vdc	
$V_{(BR)EBO}$	Emitter-Base Bre	Emitter-Base Breakdown Voltage			Vdc
I _{BL}	Base Cutoff Curi (V _{CE} =60Vdc, V _B		20	nAdc	
I _{CEX}		Collector Cutoff Current (V _{CE} =60Vdc, V _{BE} =3.0Vdc)			nAdc
ON CHARA	CTERISTICS				
h _{FE}	DC Current Gain		35 50 75 100 50 40	300	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (I _C =150mAdc, I _B =15mAdc) (I _C =500mAdc, I _B =50mAdc)			0.3 1.0	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I _C =150mAdc, I _B =15mAdc) (I _C =500mAdc, I _B =50mAdc)		0.6	1.2 2.0	Vdc
SMALL-SIG	NAL CHARACTER			•	
f⊤	Current Gain-Bandwidth Product (I _C =20mAdc, V _{CE} =20Vdc, f=100MHz)		300		MHz
C _{obo}	Output Capacitance (V _{CB} =10Vdec, I _E =0, f=1.0MHz)			8.0	pF
C _{ibo}	(V _{BE} =0.5Vdc, I _C =	Input Capacitance (V _{BE} =0.5Vdc, I _C =0, f=1.0MHz)		25	pF
NF	Noise Figure (I_C =100 μ Adc, V_{CE} =10Vdc, R_S =1.0 $k\Omega$ f=1.0 k Hz)			4.0	dB
SWITCHIN	G CHARACTERIS	TICS			
t _d	Delay Time	dc	10	ns	
t _r	Rise Time			25	ns
ts	Storage Time			225	ns
t _f	Fall Time I _{B1} =I _{B2} =15mAdc)			60	ns

SOT-89			
C E E			
B C E			

DIMENSINS								
DIM	INCHES		MM		NOTES			
	MIN	MAX	MIN	MAX				
Α	.173	.181	4.39	4.60				
В	.061		1.55		REF.			
С	.154	.165	3.91	4.25				
D	.031	.039	0.80	1.00				
E	.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				

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Ordering Information:

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

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

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