



PZT5401

PNP EPITAXIAL SILICON TRANSISTOR

HIGH VOLTAGE SWITCHING TRANSISTOR

■ FEATURES

*High Collector-Emitter Voltage:

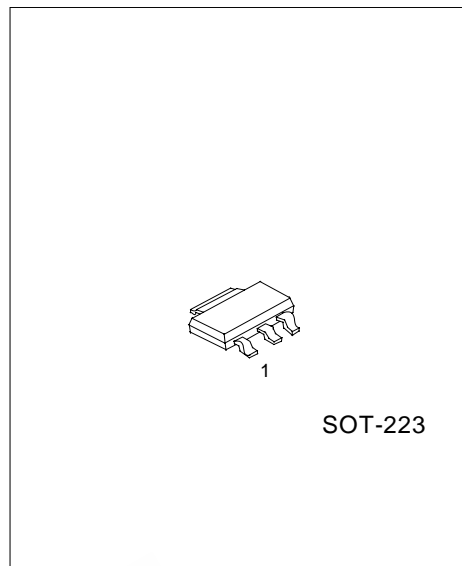
$V_{CE0} = -150V$

*High current gain

APPLICATIONS

*Telephone Switching Circuit

*Amplifier



*Pb-free plating product number: PZT5401L

■ PIN CONFIGURATION

PIN NO.	PIN NAME
1	Base
2	Collector
3	Emitter

■ ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead Free Plating		
PZT5401-AA3-R	PZT5401L-AA3-R	SOT-223	Tape & Reel

PZT5401

PNP EPITAXIAL SILICON TRANSISTOR

■ ABSOLUTE MAXIMUM RATINGS (Ta = 25 , unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CB0}	-160	V
Collector-Emitter Voltage	V _{CEO}	-150	V
Emitter-Base Voltage	V _{EBO}	-5	V
DC Collector Current	I _C	-600	mA
Power Dissipation	P _D	2	W
Operating Junction Temperature	T _J	+150	
Storage Temperature	T _{STG}	-40 ~ +150	

■ ELECTRICAL CHARACTERISTICS (Ta= 25 , unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	V _{CB0}	I _C =100μA, I _E =0	-160			V
Collector-Emitter Breakdown Voltage	V _{CEO}	I _C =1mA, I _B =0	-150			V
Emitter-Base Breakdown Voltage	V _{EBO}	I _E =10μA, I _C =0	-6			V
Collector Cut-off Current	I _{CBO}	V _{CB} =120V, I _E =0			-50	nA
Emitter Cut-off Current	I _{EBO}	V _{BE} =-3V, I _C =0			-50	nA
DC Current Gain(note)	h _{FE}	V _{CE} =-5V, I _C =-1mA	80			
		V _{CE} =-5V, I _C =-10mA	80		400	
		V _{CE} =-5V, I _C =-50mA	80			
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =-10mA, I _B =-1mA I _C =-50mA, I _B =-5mA			-0.2 -0.5	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =-10mA, I _B =-1mA I _C =-50mA, I _B =-5mA			-1 -1	V
Current Gain Bandwidth Product	f _T	V _{CE} =-10V, I _C =-10mA, f=100MHz	100		400	MHz
Output Capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz			6.0	pF
Noise Figure	N _F	I _C =-0.25mA, V _{CE} =-5V R _S =1kΩ, f=10Hz ~ 15.7kHz			8	dB

Note: Pulse test: PW<300μs, Duty Cycle<2%

■ CLASSIFICATION OF hFE

RANK	A	B	C
RANGE	80-170	150-240	200-400

■ TYPICAL CHARACTERISTICS

Fig.1 Collector output Capacitance

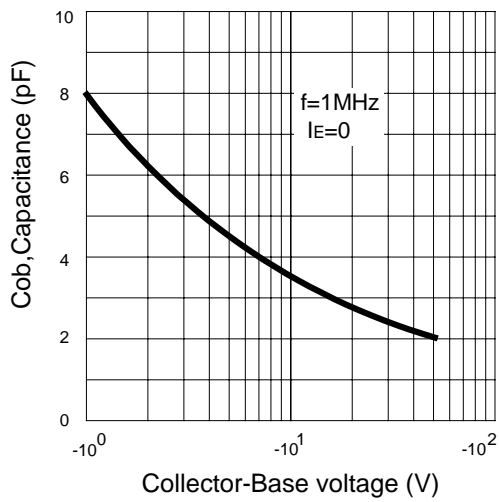


Fig.2 DC current Gain

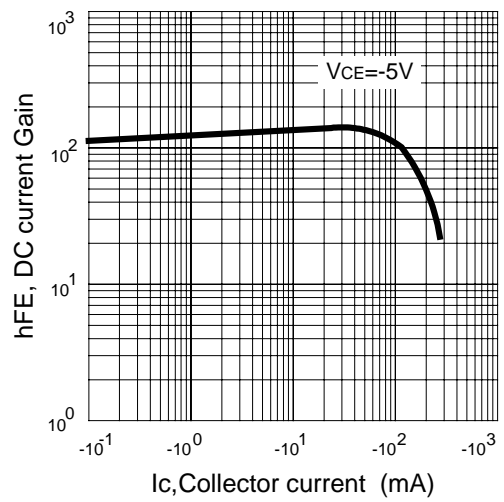


Fig.3 Base-Emitter on Voltage

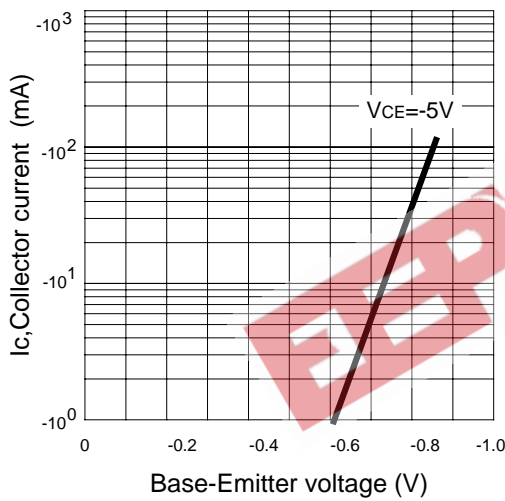


Fig.4 Saturation voltage

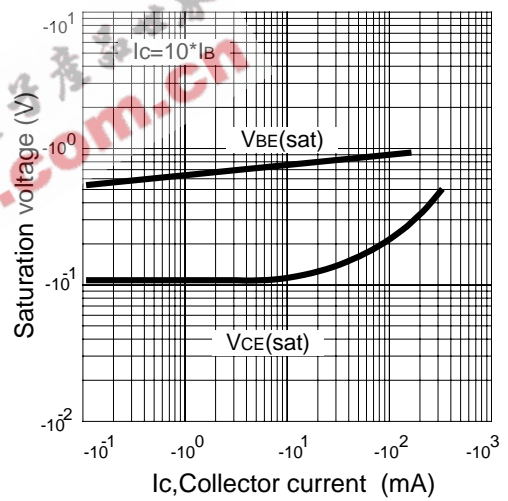
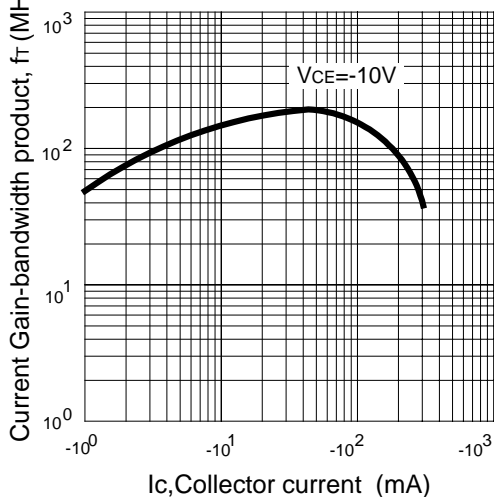


Fig.5 Current gain-bandwidth product



EEPW 電子產品世界
.com.cn

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.