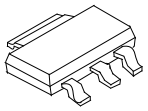
PZT4033

PNP SILICON TRANSISTOR

PNP SILICON TRANSISTOR



SOT-223

■ DESCRIPTION

The UTC **PZT4033** designed for high current general purpose amplifier applications.

■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
PZT4033L-AA3-R	PZT4033G-AA3-R	SOT-223	B	C	E	Tape Reel

PZT4033L-AA3-R
(1)Packing Type
(2)Package Type
(3)Lead Free

(1) R: Tape Reel
(2) AA3: SOT-223
(3) G: Halogen Free, L: Lead Free

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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V_{CEO}	-80	V
Emitter-Base Voltage	V_{EBO}	-5	V
Power Dissipation	P_D	2	W
Collector Current	I_C	-1	A
Junction Temperature	T_J	-65 ~ +150	°C
Storage Temperature	T_{STG}	-65 ~ +150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

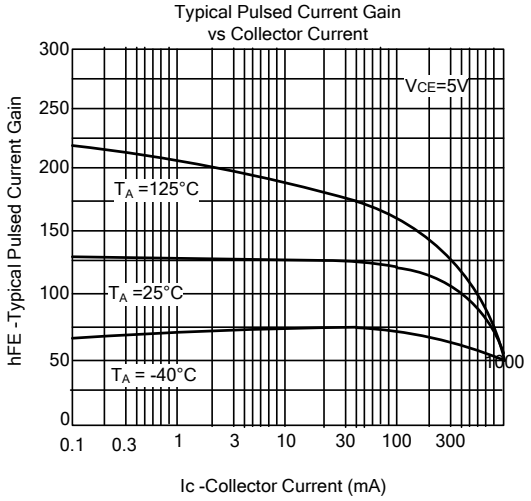
■ THERMAL DATA

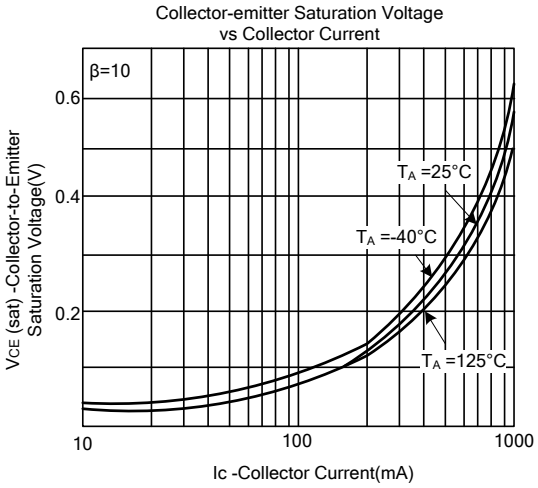
PARAMETER	SYMBOL	RATING	UNIT
Junction to Ambient	θ_{JA}	62.5	°C /W

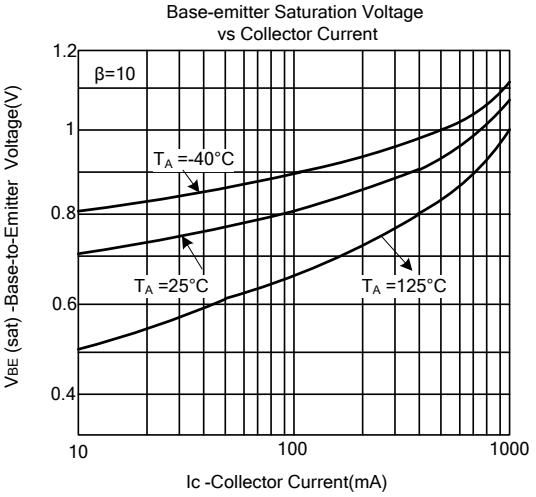
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

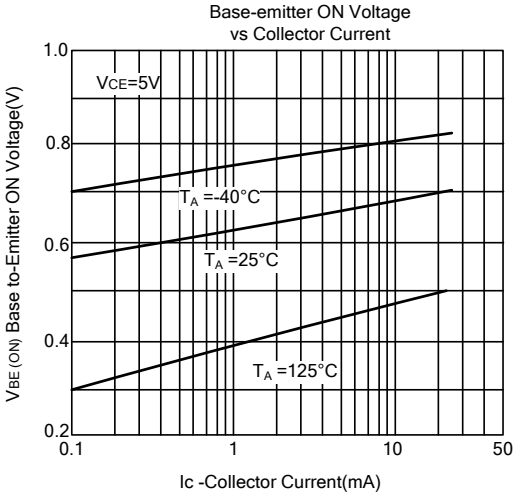
PARAMETER		SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage		BV_{CBO}	I_C=-10μA,I_E=0	-80			V
Collector-Emitter Breakdown Voltage		BV_{CEO}	I_C=-10mA,I_B=0	-80			V
Emitter-Base Breakdown Voltage		BV_{EBO}	I_E=-10μA,I_C=0	-5			V
Collector Cut-off Current		I_{CBO}	V_{CB}=-60V, I_E=0			-50	nA
Emitter Cut-off Current		I_{EBO}	V_{EB}=-5V, I_C=0			-10	nA
DC Current Gain		h_{FE}	V_{CE}=-5V, I_C=-0.1mA	75			
			V_{CE}=-5V, I_C=-100mA	100		300	
			V_{CE}=-5V, I_C=-500mA	70			
			V_{CE}=-5V, I_C=-1A	25			
Collector-Emitter Saturation Voltage		$V_{CE(SAT)}$	I_C=-150mA, I_B=-15mA			-0.15	V
			I_C=-500mA, I_B=-50mA			-0.5	
Base-Emitter Saturation Voltage		$V_{BE(SAT)}$	I_C=-150mA, I_B=-15mA			-0.9	V
			I_C=-500mA, I_B=-50mA			-1.1	
Gain Bandwidth Product		f	V_{CE}= -10V, I_C= -50mA, f=1MHz	100			MHz
Output Capacitance		C_{OB}	V_{CB}=-10V, I_E=0, f=1MHz			20	pF
Input Capacitance		C_{IB}	V_{EB}=-0.5V, I_C=0, f=1MHz			110	pF
Switching Time	Turn-on Time	t_{ON}	I_C=-500mA, V_{CE}= -30V, I_B1=- I_B2=-50mA			100	ns
	Storage Time	t_{STG}				350	ns
	Fall Time	t_F				50	ns

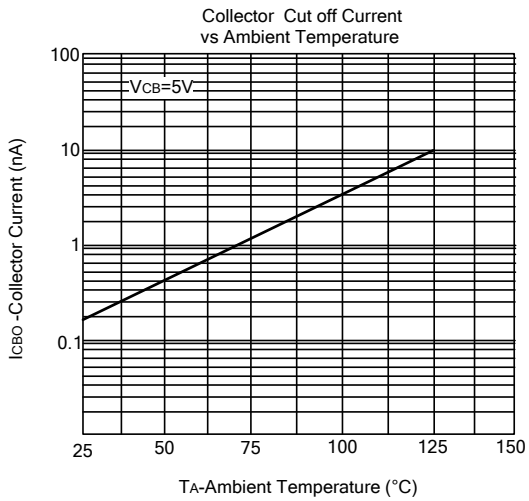
■ TYPICAL CHARACTERISTICS

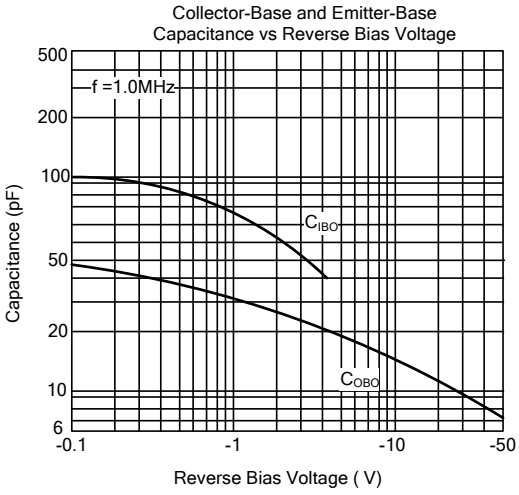












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