



PZTA92/93

PNP SILICON TRANSISTOR

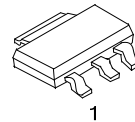
HIGH VOLTAGE TRANSISTOR

DESCRIPTION

The UTC **PZTA92/93** are high voltage PNP transistors, designed for telephone signal switching and for high voltage amplifier.

FEATURES

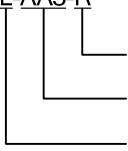
- * Collector-emitter voltage: $V_{CE0}=-300V$ (UTC PZTA92)
 $V_{CE0}=-200V$ (UTC PZTA93)
- * Complement to UTC PZTA42/43
- * Collector power dissipation: $P_{C(MAX)}=1W$



SOT-223

ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
PZTA92L-AA3-R	PZTA92G-AA3-R	SOT-223	B	C	E	Tape Reel
PZTA93L-AA3-R	PZTA93G-AA3-R	SOT-223	B	C	E	Tape Reel

PZTA92L-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 RATING (T_A=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	PZTA92	-300	V
	PZTA93	-200	V
Collector-Emitter Voltage	PZTA92	-300	V
	PZTA93	-200	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-500	mA
Collector Power Dissipation	P _C	1	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C

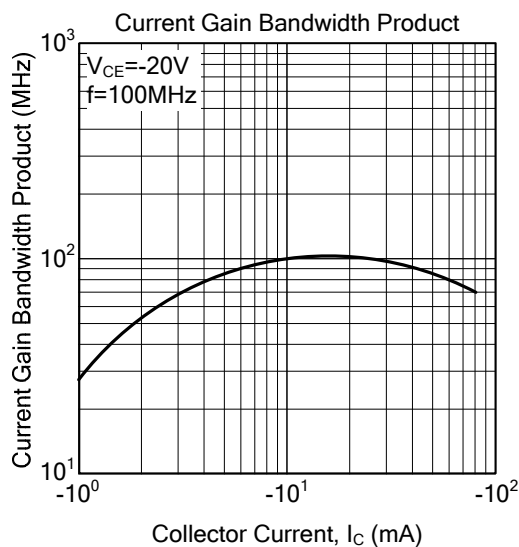
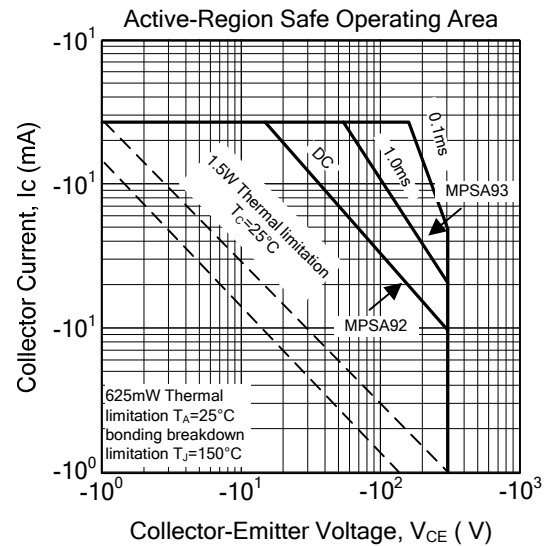
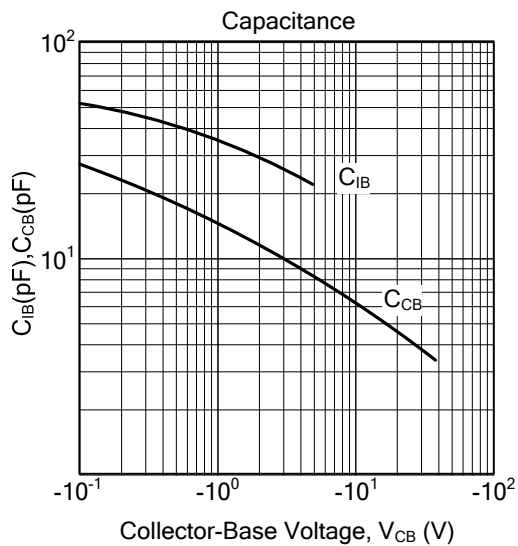
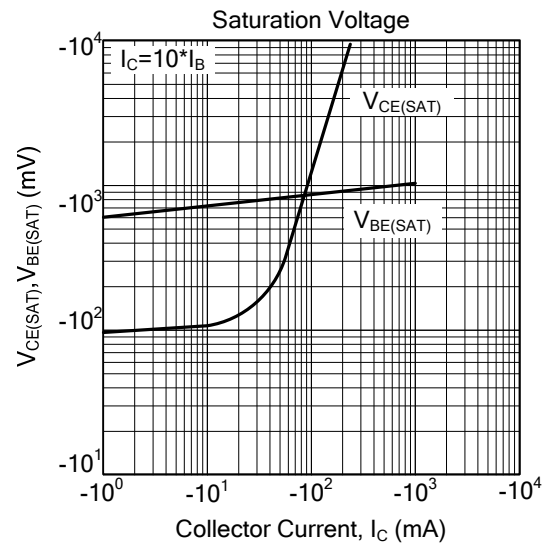
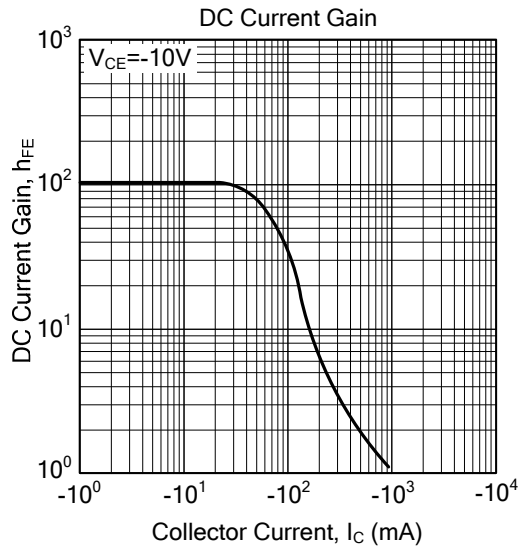
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ 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 =-100μA, I _E =0	PZTA92	-300		V
			PZTA93	-200		V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =-1mA, I _B =0	PZTA92	-300		V
			PZTA93	-200		V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E =-100μA, I _C =0		-5		V
Collector Cut-Off Current	I _{CBO}	V _{CB} =-200V, I _E =0	PZTA92		-0.25	μA
		V _{CB} =-160V, I _E =0	PZTA93		-0.25	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} =-3V, I _C =0			-0.10	μA
DC Current Gain (Note)	h _{FE}	V _{CE} =-10V, I _C =-1mA		60		
		V _{CE} =-10V, I _C =-10mA		80		
		V _{CE} =-10V, I _C =-30mA		80		
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-20mA, I _B =-2mA			-0.5	V
Base-Emitter Saturation Voltage	V _{BE(SAT)}	I _C =-20mA, I _B =-2mA			-0.90	V
Current Gain Bandwidth Product	f _T	V _{CE} =-20V, I _C =-10mA, f=100MHz		50		MHz
Collector Base Capacitance	C _{CB}	V _{CB} =-20V, I _E =0, f=1MHz	PZTA92		6	pF
			PZTA93		8	pF

Note: Pulse test: P_W<300μs, Duty Cycle<2%, V_{CE(SAT)} <200mV (Class SIN)

■ TYPICAL CHARACTERISTICS



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