

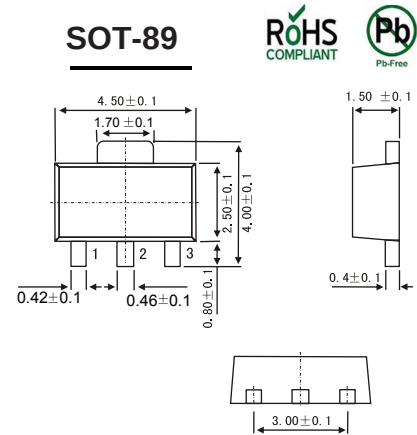
Features

- High Voltage Driver Application
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 250°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-400	V
Collector-Emitter Voltage	V_{CEO}	-400	V
Emitter-Base Voltage	V_{EBO}	-5	V
Continuous Collector Current	I_C	-0.2	A
Peak Collector Current	I_{CM}	-0.3	A
Power Dissipation	P_D	0.5	W



Dimensions in millimeters

Electrical Characteristics @ $T_A=25^\circ\text{C}$ Unless Otherwise Specified

Parameter	Symbol	Min	Typ	Max	Units	Conditions
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-400			V	$I_C=-100\mu\text{A}$, $I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-400			V	$I_C=-1\text{mA}$, $I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5			V	$I_E=-100\mu\text{A}$, $I_C=0$
Collector Cutoff Current	I_{CBO}			-0.1	μA	$V_{CB}=-400\text{V}$, $I_E=0$
Emitter Cutoff Current	I_{EBO}			-0.1	μA	$V_{EB}=-4\text{V}$, $I_C=0$
DC Current Gain	$h_{FE(1)}$	70				$V_{CE}=-10\text{V}$, $I_C=-1\text{mA}$
	$h_{FE(2)}$	80		300		$V_{CE}=-10\text{V}$, $I_C=-10\text{mA}$
	$h_{FE(3)}$	80				$V_{CE}=-10\text{V}$, $I_C=-50\text{mA}$
	$h_{FE(4)}$	60				$V_{CE}=-10\text{V}$, $I_C=-100\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.2	V	$I_C=-10\text{mA}$, $I_B=-1\text{mA}$
				-0.3	V	$I_C=-50\text{mA}$, $I_B=-5\text{mA}$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$			-0.75	V	$I_C=-10\text{mA}$, $I_B=-1\text{mA}$
Transition Frequency	f_T	50			MHz	$V_{CE}=-20\text{V}$, $I_C=-10\text{mA}$, $f=30\text{MHz}$

Typical Characteristics

Fig. 1 - Static Characteristics

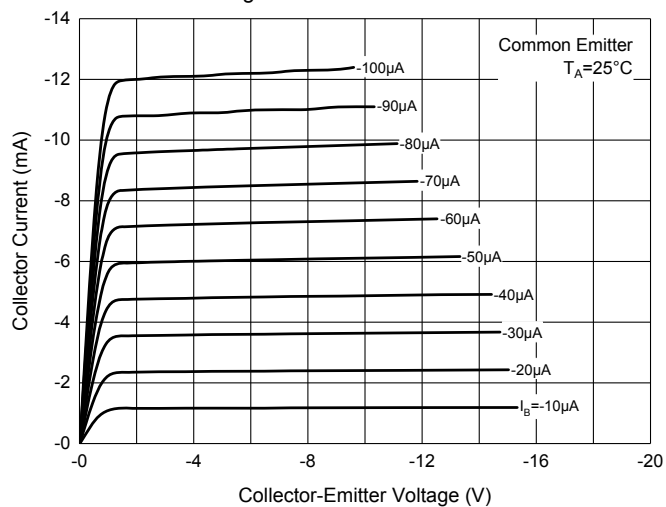


Fig. 2 - DC Current Gain Characteristics

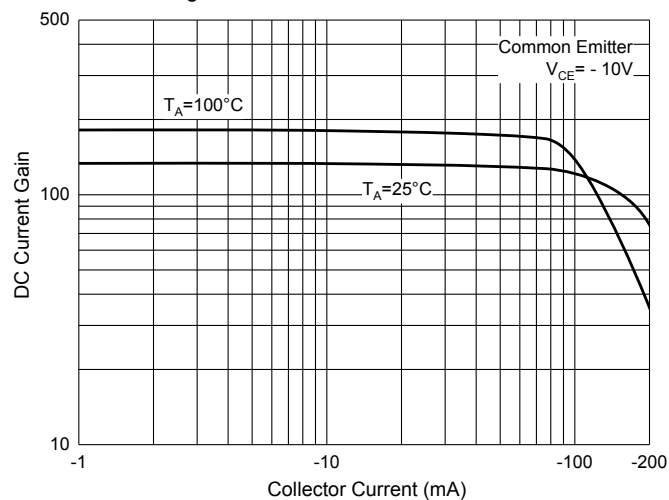


Fig. 3 - Collector-Emitter Saturation Voltage Characteristics

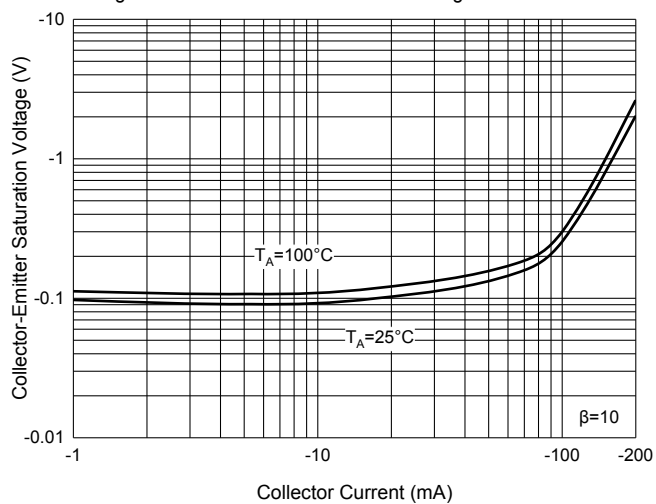


Fig. 4 - Base-Emitter Saturation Voltage Characteristics

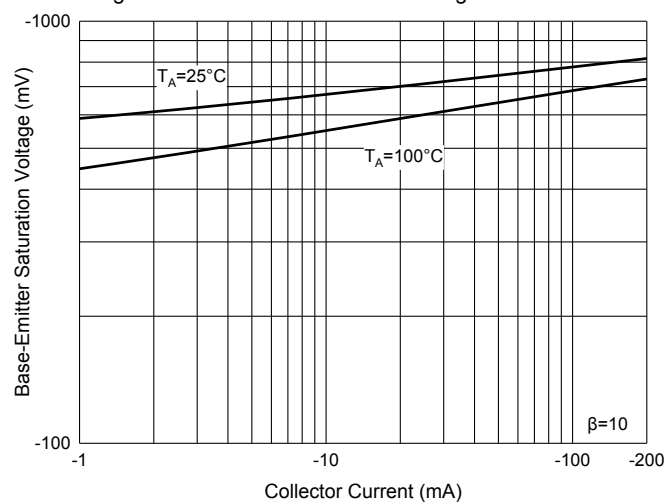


Fig. 5 - Base-Emitter Voltage Characteristics

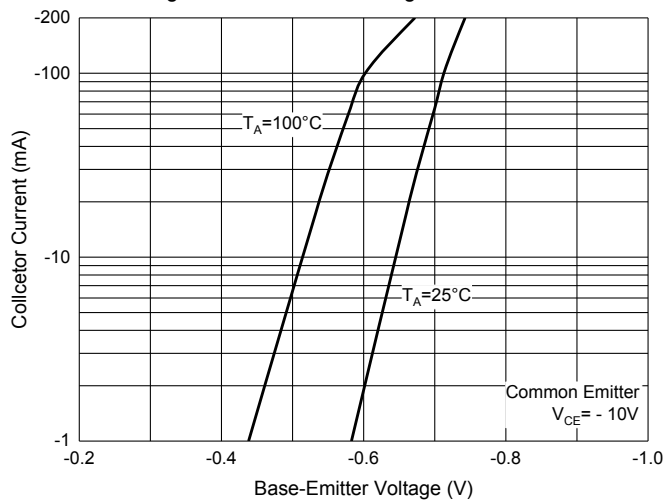
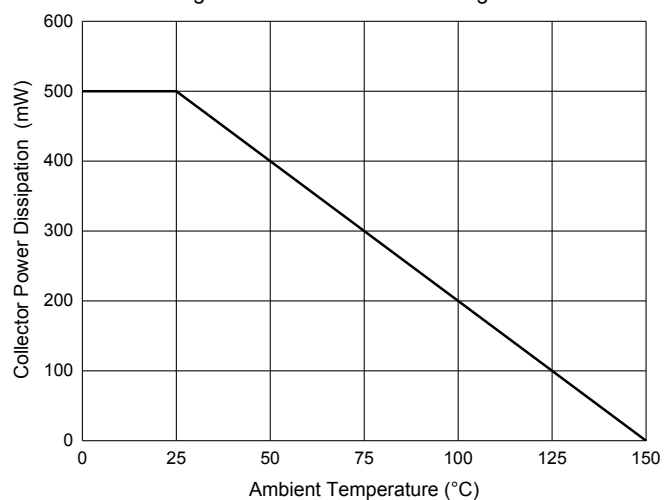
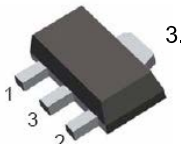
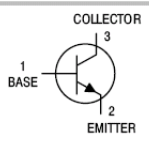


Fig. 6 - Collector Power Derating Curve

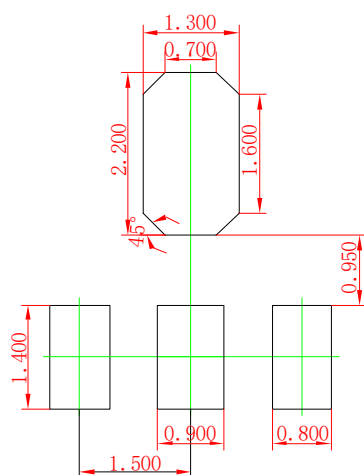


Pinning information

Pin	Simplified outline	Symbol
PinB Base PinC Collector PinE Emitter		

Marking

Type number	Marking code
PXTA94	A94

Suggested Pad Layout

Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.