

# PXTA44

## NPN Silicon High Voltage Transistor

### 500mW

### Features

- Low Collector-Emitter Saturation Voltage
- Epoxy meets UL 94V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)

### Mechanical Data

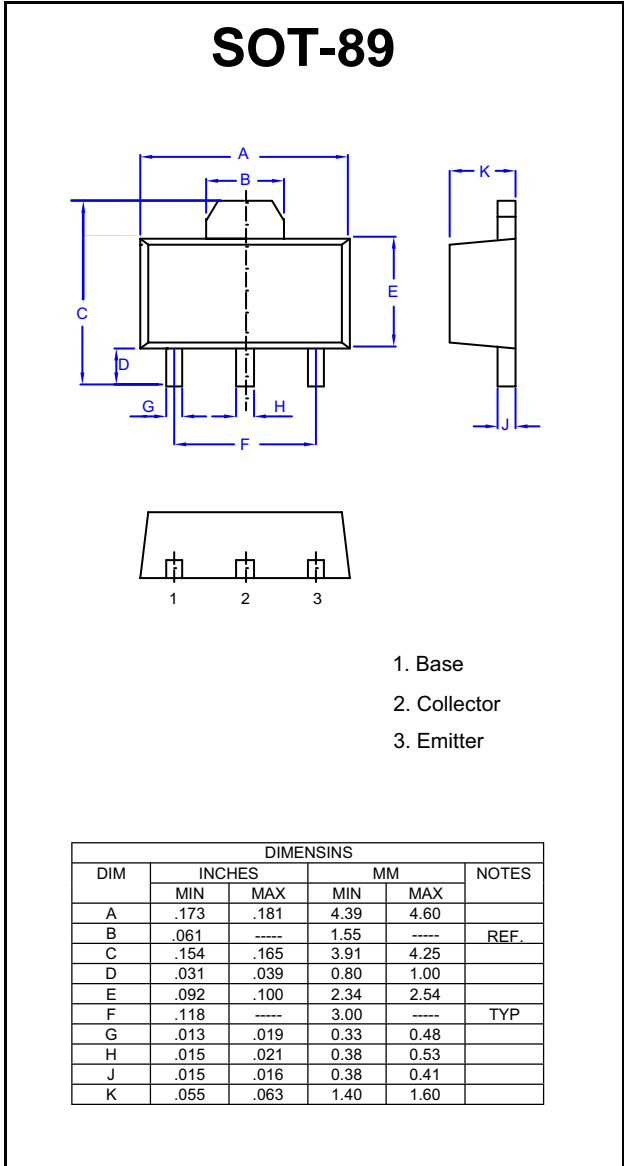
- Marking: A44

### Maximum Ratings

Symbol	Rating	Rating	Unit
$V_{CEO}$	Collector-Emitter Voltage	400	V
$V_{CBO}$	Collector-Base Voltage	500	V
$V_{EBO}$	Emitter-Base Voltage	6	V
$I_C$	Collector Current	300	mA
$P_C$	Collector power dissipation	500	mW
$T_J$	Junction Temperature	-55 to +150	°C
$T_{STG}$	Storage Temperature	-55 to +150	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$I_{CBO}$	Collector Cutoff Current ( $V_{CB} = 400V_{dc}, I_E = 0$ )	---	---	100	nAdc
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB} = 4.0V_{dc}, I_C = 0$ )	---	---	100	nAdc
$BV_{CBO}$	Collector-base breakdown voltage ( $I_C = 100\mu A_{dc}, I_E = 0$ )	500	---	---	Vdc
$BV_{CEO}$	Collector-emitter breakdown voltage ( $I_C = 1mA_{dc}, I_B = 0$ )	400	---	---	Vdc
$BV_{EBO}$	Emitter-base breakdown voltage ( $I_E = 10\mu A_{dc}, I_C = 0$ )	6	---	---	Vdc
$h_{FE}$	DC Current Gain ( $I_C = 1mA_{dc}, V_{CE} = 10V_{dc}$ ) ( $I_C = 10mA_{dc}, V_{CE} = 10V_{dc}$ ) ( $I_C = 50mA_{dc}, V_{CE} = 10V_{dc}$ ) ( $I_C = 100mA_{dc}, V_{CE} = 10V_{dc}$ )	40 50 45 40	---	----- 200 ----- -----	--- --- --- ---
$V_{CE(sat)}$	Collector Saturation Voltage ( $I_C = 1mA_{dc}, I_B = 0.1mA_{dc}$ ) ( $I_C = 50mA_{dc}, I_B = 5mA$ )	---	---	0.4 0.75	V V
$V_{BE(sat)}$	Collector Saturation Voltage ( $I_C = 10mA_{dc}, I_B = 1mA_{dc}$ )	---	---	0.75	V
$C_{ob}$	Collector output capacitance ( $V_{CB} = 20V_{dc}, I_E = 0, f = 1MHz$ )	---	---	7	pF





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### Ordering Information :

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

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