

PXTA44

NPN Silicon High Voltage Transistor

500mW

Features

- Halogen free available upon request by adding suffix "-HF"
- 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

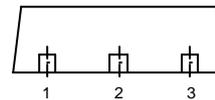
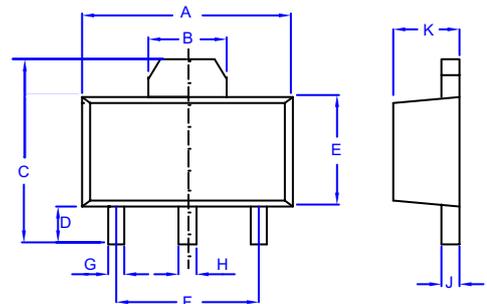
Maximum Ratings

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

SOT-89



1. Base
2. Collector
3. Emitter

DIM	DIMENSIONS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.061	-----	1.55	-----	REF.
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	-----	3.00	-----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	



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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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