



SOT-89-3L Plastic-Encapsulate Transistors

PXT3906

TRANSISTOR (PNP)

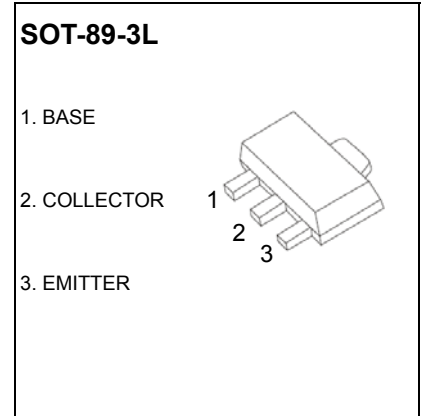
FEATURES

- Compliment to PXT3904
- Low current
- Low voltage

MARKING: 2A

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	-40	V
V _{CE0}	Collector-Emitter Voltage	-40	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current -Continuous	-0.2	A
P _C	Collector Power Dissipation	0.5	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C



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ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10μA, I _E =0	-40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA, I _B =0	-40			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA, I _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-30V, I _E =0			-0.05	μA
Base cut-off current	I _{EBO}	V _{EB} =-6V, I _C =0			-0.01	μA
DC current gain	h _{FE(1)} h _{FE(2)} h _{FE(3)} h _{FE(4)} h _{FE(5)}	V _{CE} =-1V, I _C =-0.1mA V _{CE} =-1V, I _C =-1mA V _{CE} =-1V, I _C =-10mA V _{CE} =-1V, I _C =-50mA V _{CE} =-1V, I _C =-100mA	60 80 100 60 30		300	
Collector-emitter saturation voltage	V _{CE(sat)1} V _{CE(sat)2}	I _C =-10mA, I _B =-1mA I _C =-50mA, I _B =-5mA			-0.25 -0.4	V
Base-emitter saturation voltage	V _{BE(sat)1} V _{BE(sat)2}	I _C =-10mA, I _B =-1mA I _C =-50mA, I _B =-5mA	-0.65		-0.85 -0.95	V
Transition frequency	f _T	V _{CE} =-20V, I _C =-10mA, f=100MHz	250			MHz
Collector capacitance	C _c	V _{CB} =-5V, I _E =0, f=1MHz			4.5	pF
Emitter capacitance	C _e	V _{EB} =-0.5V, I _C =0, f=1MHz			10	pF
Noise figure	NF	V _{CE} =-5V, I _C =-0.1mA, f=10Hz-15.7kHz, R _S =1KΩ			4	dB
Delay time	t _d	I _C =-10mA, I _{B1} =-I _{B2} =-1mA			35	ns
Rise time	t _r				35	ns
Storage time	t _s				225	ns
Fall time	t _f				75	ns