



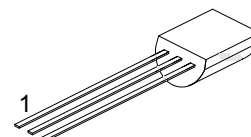
2N3906

PNP EPITAXIAL PLANAR TRANSISTOR

GENERAL PURPOSE APPLICATION

■ FEATURES

- * Collector-Emitter Voltage: $V_{CEO}=40V$
- * Collector Dissipation: $P_{c(MAX)}=625mW$
- * Complementary to UTC 2N3904



TO-92

■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2N3906L-T92-B	2N3906G-T92-B	TO-92	E	B	C	Tape Box
2N3906L-T92-K	2N3906G-T92-K	TO-92	E	B	C	Bulk
2N3906L-T92-R	2N3906G-T92-R	TO-92	E	B	C	Tape Reel

Note: Pin Assignment: E: EMITTER B: BASE C: COLLECTOR

2N3906L-T92-B (1) Packing Type (2) Package Type (3) Lead Free		(1) B: Tape Box, K: Bulk, R: Tape Reel (2) T92: TO-92 (3) G: Halogen Free, L: Lead Free
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■ ABSOLUTE MAXIMUM RATING (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	-40	V
Collector-Emitter Voltage	V _{CEO}	-40	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current	I _C	-200	mA
Base Current	I _B	-50	mA
Collector dissipation	P _C	625	mW
Junction Temperature	T _J	125	°C
Operating Temperature	T _{OPR}	-20 ~ +85	°C
Storage Temperature	T _{STG}	-40 ~ +150	°C

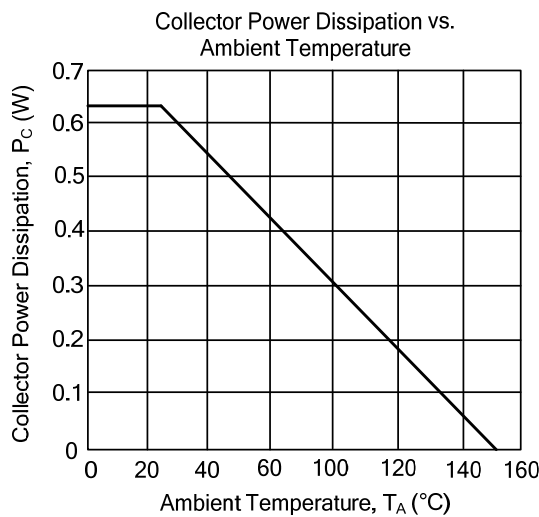
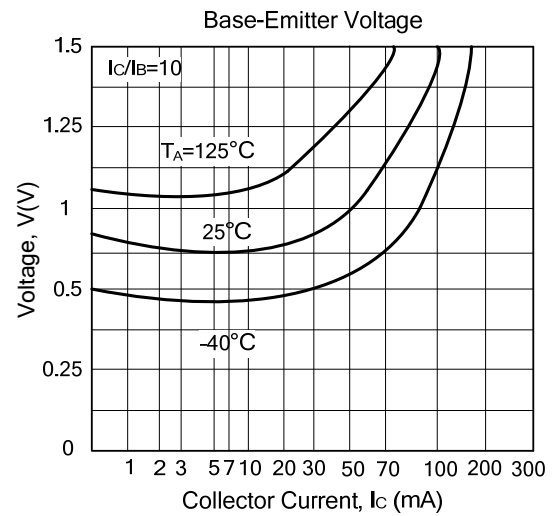
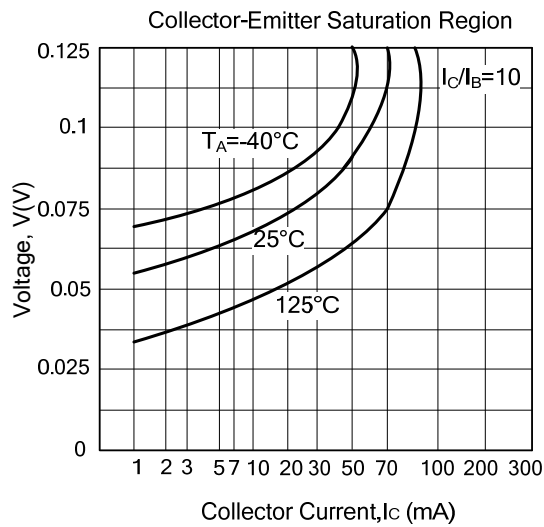
Note: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	I _{CEX}	V _{CE} =-30V, V _{EB} =-3V			-50	nA
Base Cut-Off Current	I _{BL}	V _{CE} =-30V, V _{EB} =-3V			-50	nA
Collector-Base Breakdown Voltage	V _{CBO}	I _C =-10μA, I _E =0	-40			V
Collector-Emitter Breakdown Voltage	V _{CEO}	I _C =-1mA, I _B =0 (Note)	-40			V
Emitter-Base Breakdown Voltage	V _{EBO}	I _E =-10μA, I _C =0	-6			V
DC Current Gain (Note)	h _{FE1}	V _{CE} =-1V, I _C =-0.1mA	60			
	h _{FE2}	V _{CE} =-1V, I _C =-1mA	80			
	h _{FE3}	V _{CE} =-1V, I _C =-10mA	100		300	
	h _{FE4}	V _{CE} =-1V, I _C =-50mA	60			
	h _{FE5}	V _{CE} =-1V, I _C =-100mA	30			
Collector-Emitter Saturation Voltage (Note)	V _{CE(SAT)1}	I _C =-10mA, I _B =-1mA			-0.25	V
	V _{CE(SAT)2}	I _C =-50mA, I _B =-5mA			-0.4	
Base-Emitter Saturation Voltage	V _{BE(SAT)1}	I _C =-10mA, I _B =-1mA	-0.65		-0.85	V
	V _{BE(SAT)2}	I _C =-50mA, I _B =-5mA			-0.95	
Transition Voltage	f _T	V _{CE} =-20V, I _C =-10mA, f=100MHz	250			MHz
Output Capacitance	C _{OB}	V _{CB} =-5V, I _E =0, f=1MHz			4.5	pF
Turn On Time	t _{ON}	V _{CC} =-3V, V _{BE} =-0.5V, I _C =-10mA, I _{B1} =-1mA			70	ns
Turn Off Time	t _{OFF}	I _{B1} =I _{B2} =-1mA			300	ns

Note: Pulse test: P_W≤300μs, Duty Cycle≤2%

TYPICAL CHARACTERISTICS



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