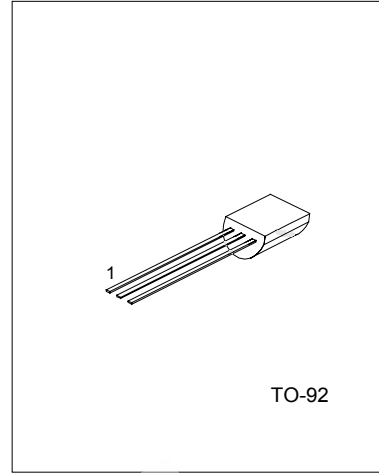


GENERAL PURPOSE APPLIATION

FEATURES

- *Collector-Emitter Voltage: $V_{CE0}=40V$
- *Collector Dissipation: $P_c(\max)=625mW$
- *Complementary to 2N3904



TO-92

1:EMITTER 2:BASE 3:COLLECTOR

ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}C$,unless otherwise specified)

PARAMETER	SYMBOL	RATING	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	150	$^{\circ}C$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}C$, unless otherwise specified)

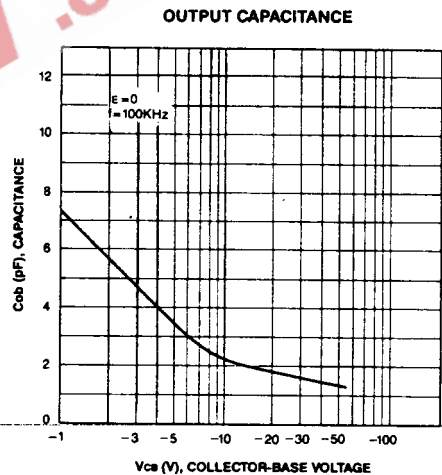
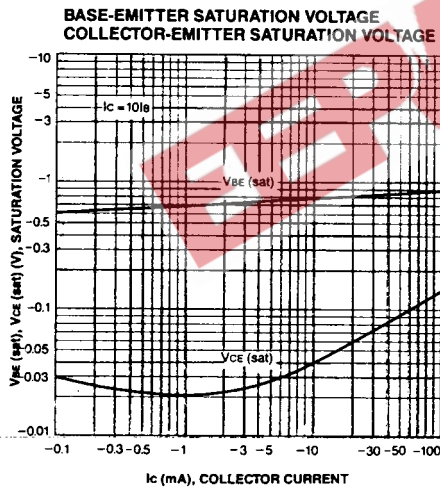
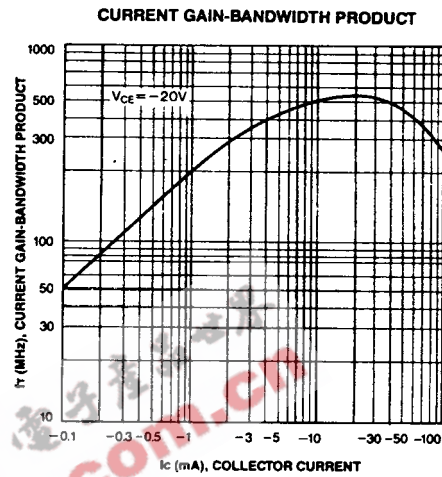
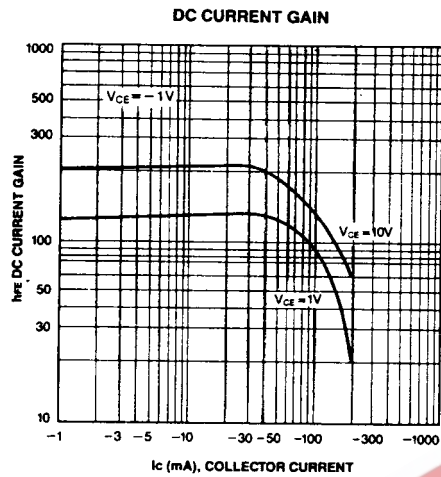
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-off Current	I_{CEX}	$V_{CE}=-30V, V_{EB}=-3V$			-50	nA
Base Cut-off Current	I_{BL}	$V_{CE}=-30V, V_{EB}=-3V$			-50	nA
Collector-base breakdown voltage	V_{CBO}	$I_c=-10\mu A, I_E=0$	-40			V
Collector-emitter breakdown voltage (note)	V_{CEO}	$I_c=-1mA, I_B=0$	-40			V
Emitter-base breakdown voltage	V_{EBO}	$I_E=-10\mu A, I_c=0$	-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	V
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	V
Transition voltage	f_T	$V_{CE}=-20V, I_c=-10mA, f=100MHz$	250			MHz

UTC 2N3906

PNP EPITAXIAL PLANAR TRANSISTOR

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Output capacitance	Cob	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: PW<=300μs, Duty Cycle<=2%



EEPW 电子產品世界
.com.cn

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.