

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

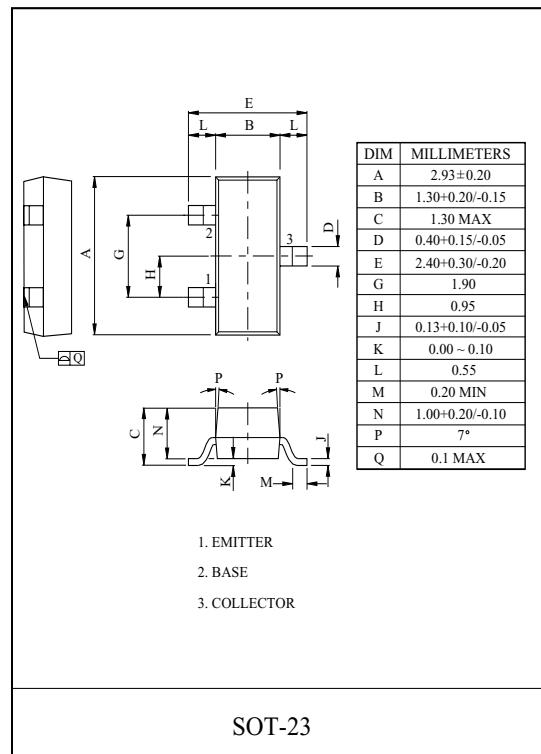
FEATURES

- Low Leakage Current : $I_{CEX}=50\text{nA}(\text{Max.})$; @ $V_{CE}=30\text{V}$, $V_{EB}=3\text{V}$.
- Low Saturation Voltage : $V_{CE(\text{sat})}=0.3\text{V}(\text{Max.})$; $I_C=50\text{mA}$, $I_B=5\text{mA}$.
- Complementary to the KN3906S.

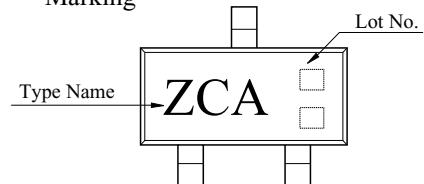
MAXIMUM RATING (Ta=25)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	40	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	200	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_C *	350	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Note : * Package Mounted On 99.5% Alumina 10 × 8 × 0.6mm)



Marking



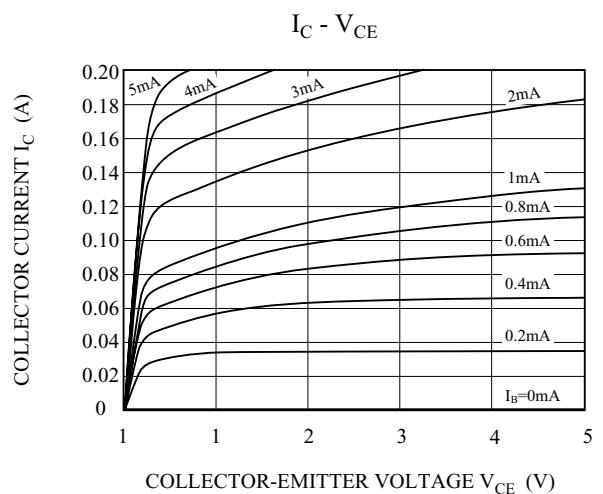
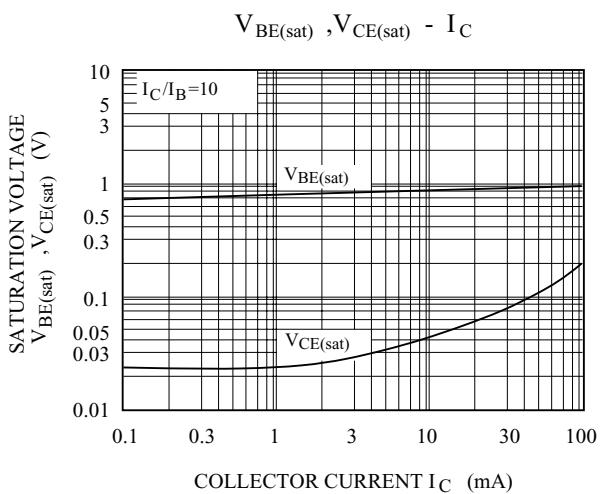
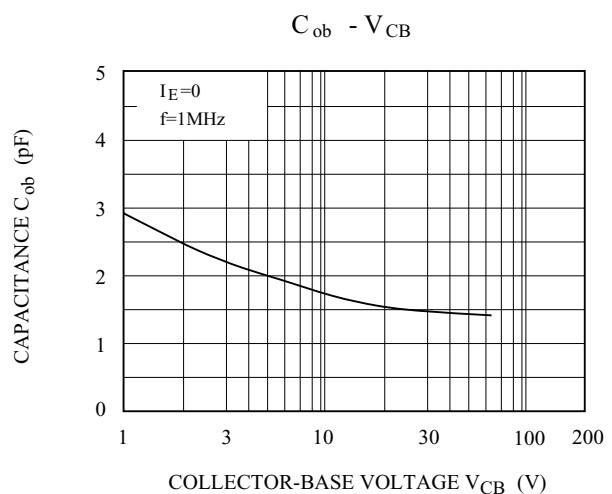
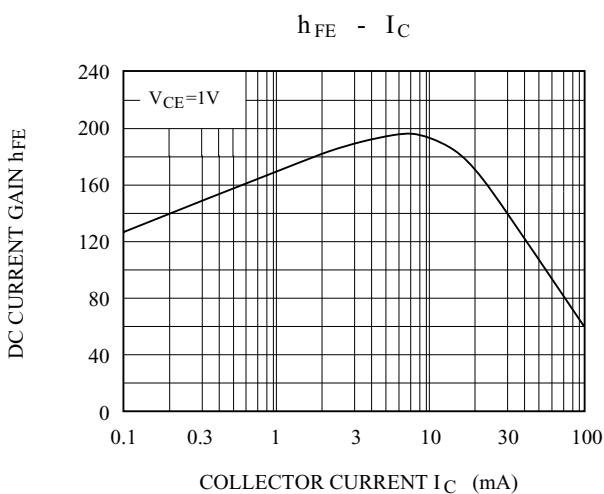
KN3904S

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CEX}	V _{CE} =30V, V _{EB} =3V	-	-	50	nA
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C =10 μA, I _E =0	60	-	-	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 =10 μA, I _C =0	6	-	-	V
DC Current Gain *	h _{FE} (1)	V _{CE} =1V, I _C =0.1mA	40	-	-	
	h _{FE} (2)	V _{CE} =1V, I _C =1mA	70	-	-	
	h _{FE} (3)	V _{CE} =1V, I _C =10mA	100	-	300	
	h _{FE} (4)	V _{CE} =1V, I _C =50mA	60	-	-	
	h _{FE} (5)	V _{CE} =1V, I _C =100mA	30	-	-	
Collector-Emitter Saturation Voltage *	V _{CE(sat)1}	I _C =10mA, I _B =1mA	-	-	0.2	V
	V _{CE(sat)2}	I _C =50mA, I _B =5mA	-	-	0.3	
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 Frequency	f _T	V _{CE} =20V, I _C =10mA, f=100MHz	-	300	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =5V, I _E =0, f=1MHz	-	-	4.0	pF

* Pulse Test : Pulse Width 300 μS, Duty Cycle 2%.

KN3904S



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