

UTCKSA1625 PNP EPITAXIAL SILICON TRANSISTOR

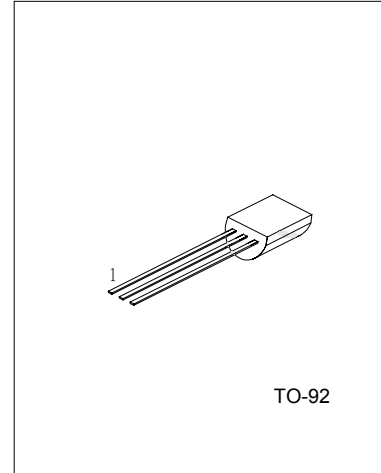
HIGH VOLTAGE TRANSISTOR

FEATURES

- *Collector-Emitter voltage:
 $V_{CE0}=-400V$
- *Collector Dissipation:
 $P_c(max)=625mW$
- *Low collector-Emitter saturation voltage

APPLICATIONS

- *Telephone switching
- *High voltage switch



1:EMITTER 2: COLLECTOR 3: BASE

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-base voltage	V_{CBO}	-400	V
Collector-emitter voltage	V_{CEO}	-400	V
Emitter-base voltage	V_{EBO}	-6	V
Collector dissipation($T_a=25^{\circ}C$)	P_c	625	mW
Collector current	I_c	-300	mA
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}C$

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	BV_{CBO}	$I_c=-100\mu A, I_E=0$	-400			V
Collector-emitter breakdown voltage	BV_{CEO}	$I_c=-1mA, I_B=0$	-400			V
Collector-emitter breakdown voltage	BV_{CES}	$I_c=-100\mu A, V_{BE}=0$	-400			V
Emitter-base breakdown voltage	BV_{EBO}	$I_E=-100\mu A, I_c=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-300V, I_E=0$			-100	nA
Collector cut-off current	I_{CES}	$V_{CB}=-400V, V_{BE}=0$			-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-4V, I_c=0$			100	nA
DC current gain(note)	h_{FE}	$V_{CE}=-10V, I_c=-1mA$ $V_{CE}=-10V, I_c=-10mA$ $V_{CE}=-10V, I_c=-50mA$ $V_{CE}=-10V, I_c=-100mA$	60 70 70 40		300	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c=-10mA, I_B=-1mA$ $I_c=-50mA, I_B=-5mA$			-0.20 -0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_c=-10mA, I_B=-1mA$			-0.75	V
Output capacitance	C_{ob}	$V_{CB}=-20V, I_E=0, f=1MHz$			7	pF

Note: Pulse test: $PW < 300\mu s$, Duty Cycle $< 2\%$

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TYPICAL PARAMETERS PERFORMANCE

Fig.1 Dc current gain

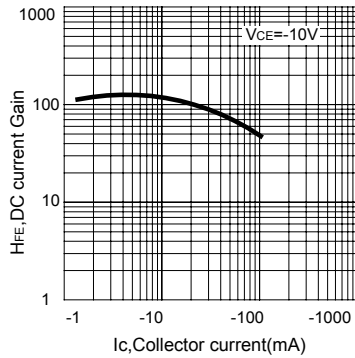


Fig.2 Base-emitter saturation voltage

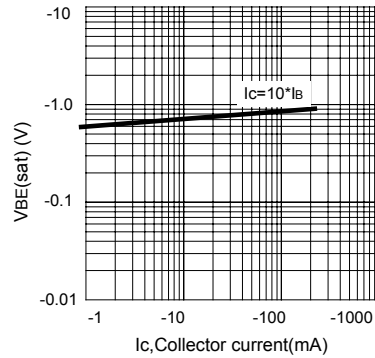


Fig.3 Collector-emitter saturation voltage

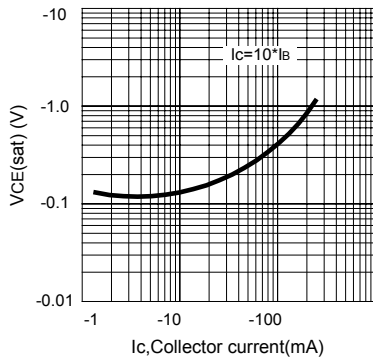
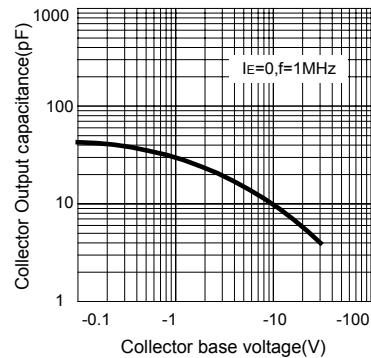


Fig.4 Collector Output capacitance



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