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KODENSHI AUK

STC945
NPN Silicon Transistor

Description

- General small signal amplifier

Features

- Low collector saturation voltage
| $V_{CE(sat)}$ = 0.25V (Max.)
- Low output capacitance : C_{ob} = 2pF (Typ.)
- Complementary pair with STA733

Ordering Information

Type NO.	Marking	Package Code
STC945	STC945	TO-92

PIN Connection



TO-92

Absolute maximum ratings (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-emitter breakdown voltage	V_{CE}	50	V
Collector-base breakdown voltage	V_{CB}	40	V
Emitter-base breakdown voltage	V_{EB}	5	V
Collector current	I_C	10	mA
Collector dissipation	P_C	—	mW
Storage temperature	T_{stg}	-55 ~ 150	°C

alldatasheet.com

Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-base breakdown voltage	BV_{CBO}	$I_C = 50\mu A, I_B = 0$	50	-	-	V
Collector-emitter breakdown voltage	BV_{CEO}	$I_C = 2mA, I_B = 0$	40	-	-	V
Emitter-base breakdown voltage	BV_{EBO}	$I_E = 50\mu A, I_C = 0$	5	-	-	V
Collector cut-off current	I_{CO}	$V_{CE} = 5V, I_B = 0$	-	-	0.1	μA
Emitter cut-off current	I_{EO}	$V_{BE} = 5V, I_C = 0$	-	-	0.1	μA
DC current gain	h_{FE}	$V_{CE} = 5V, I_C = 2mA$	70	-	300	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 100mA, I_B = 10mA$	-	-	0.25	V
Transition frequency	f_T	$V_{CE} = 5V, I_C = 1mA$	80	-	-	MHz
Collector output capacitance	C_{ob}	$V_{CE} = 5V, I_C = 0, f = 100kHz$	-	2	3.5	pF
Noise figure	NF	$V_{CE} = 5V, I_C = 1mA, f = 1kHz, P_{in} = 10mW$	-	-	10	dB

* I_C: 50 μ A; I_B: 0; V_{CE}: 5V; I_E: 200 μ A; I_C: 100 μ A; I_E: 100 μ A

KSD-05A03-001

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