KODENSHI AUK

Descriptions

- General purpose application
- Switching application

Features

- High voltage : VCEO=30V
- Complementary pair with KBC558

Ordering Information

Type NO.	Marking	Package Code
KBC548	КВС548□ •	TO-92

HFE Rank •Dalian

Absolute Maximum Ratings

Absolute Maximum Ratings			Ta=25°C
Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	Vсво	30	V
Collector-Emitter voltage	Vceo	30	V
Emitter-Base voltage	Vево	5	V
Collector current	Ic	100	mA
Collector dissipation	Pc	625	mW
Junction temperature	Tj	150	Ĵ
Storage temperature	Tstg	-55~150	Ĵ

Electrical Characteristics

Electrical Characteristics Ta=25°C						25°C
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Emitter breakdown voltage	BVCEO	Ic=1mA, IB=0	30	-	-	V
Base-Emitter turn on voltage	VBE(ON)	Vce=5V, Ic=2mA	550	-	700	mV
Base-Emitter saturation voltage	VBE(sat)	Ic=100mA, IB=5mA	-	900	-	mV
Collector-Emitter saturation voltage	VCE(sat)	Ic=100mA, IB=5mA	-	-	600	mV
Collector cut-off current	Ісво	VCB=35V, IE=0	-	-	15	nA
DC current gain	* hfe	Vce=5V, Ic=2mA	110	-	800	-
Transition frequency	f⊤	Vce=5V, Ic=10mA	-	150	-	MHz
Collector output capacitance	Cob	V _{CB} =10V, I _E =0, f=1MHz	-	-	4.5	pF
Noise figure	NF	Vcε=5V, Ic=200μA, f=1KHz, Rg=2KΩ	-	-	10	dB

* : hfe rank / A : 110 \sim 220, B : 200 \sim 450, C : 420 \sim 800

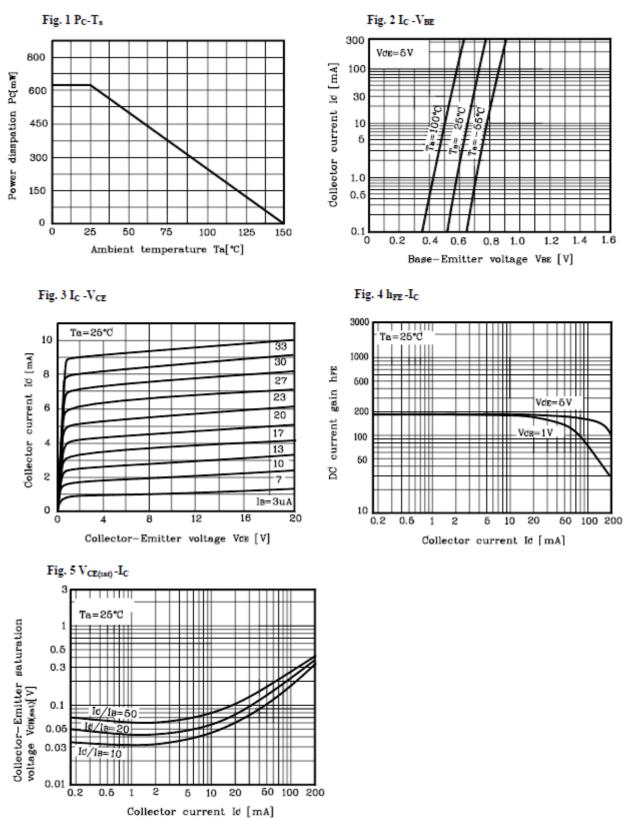
С TO-92

KBC548

NPN Silicon Transistor

PIN Connection

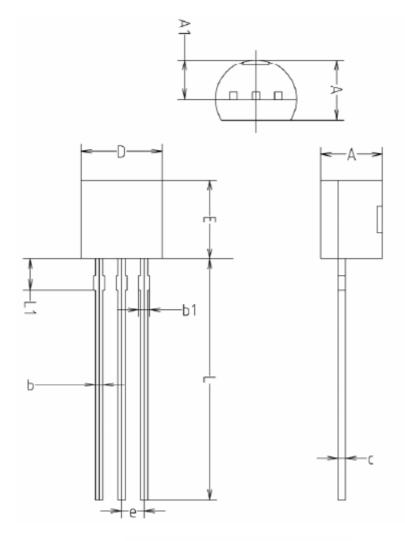




Electrical Characteristic Curves

KBC548

Outline Dimension



	MILLMETERS(mm)			
SYMBOL	MINIMUM	NOMINAL	MAXIMUM	
А	3.40	3.50	3.66	
A1	2.46	2.51	2.59	
b	0.39	0.44	0.53	
b1	0.39	-	0.63	
С	0.35	0.42	0.47	
D	4.48	4.60	4.70	
E	4.48	4.60	4.70	
е	1.17	1.27	1.37	
L	13.70	14.00	14.77	
L1	1.55	1.70	2.15	

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