

Silicon PNP transistor epitaxial type

A5985

[Applications]

General purpose amplifier

[Feature]

Very low collector saturation voltage VCE(sat)= -0.6V (Max.) at IC= -1A, IB= -100mA
NPN complementary pair with C5985

[Absolute maximum ratings (Ta=25C)]

Characteristic	Symbol	Maximum ratings	Unit
Collector-base voltage	VCBO	-80	V
Collector-emitter voltage	VCEO	-60	V
Emitter-base voltage	VEBO	-5	V
Collector current (DC)	IC	-1	A
Collector current (Pulse)	IC	-2	A
Junction temperature	Tj	150	C
Storage temperature	Tstg	-55 to 150	C

[Electrical characteristics (Ta=25C)]

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BVCBO	-80	-	-	V	IC= -100uA, IE= 0A
Collector-emitter breakdown voltage	BVCEO	-60	-	-	V	IC= -10mA, IB= 0A
Emitter-base breakdown voltage	BVEBO	-5	-	-	V	IE= -100uA, IC= 0A
Collector cut-off current	ICBO	-	-	-100	nA	VCB= -60V, IE= 0A
Collector cut-off current	ICES	-	-	-100	nA	VCES= -60V
Emitter cut-off current	IEBO	-	-	-100	nA	VEB= -4V, IC= 0A
DC current gain 1	hFE 1	130	-	-	-	VCE= -5V, IC= -1mA
DC current gain 2	hFE 2	130	-	300	-	VCE= -5V, IC= -500mA
DC current gain 3	hFE 3	80	-	-	-	VCE= -5V, IC= -1A
DC current gain 4	hFE 4	15	-	-	-	VCE= -5V, IC= -2A
Collector-emitter saturation voltage 1	VCE(sat) 1	-	-	-0.3	V	IC= -500mA, IB= -50mA
Collector-emitter saturation voltage 2	VCE(sat) 2	-	-	-0.6	V	IC= -1A, IB= -100mA
Base-emitter saturation voltage	VBE(sat)	-	-	-1.2	V	IC= -1A, IB= -100mA
Base-emitter on voltage	VBE(on)	-	-	-1.0	V	VCE= -5V, IC= -1A
Transition frequency	fT	150	-	-	MHz	VCE= -10V, IE= 50mA
Collector output capacitance	Cob	-	-	12	pF	VCB= -10V, f = 1MHz, IE= 0A

Notice 1) These are measured data of transistors assembled by PHENITEC SEMICONDUCTOR Corp. and are for reference only.

Notice 2) The contents described herein are subject to change without notice.

