

Silicon PNP transistor epitaxial type AP872

[Applications]

High voltage switching and amplifier

[Feature]

High voltage VCEO= -300V

Low collector saturation voltage VCE(sat)= -0.5V (Max.) at IC= -10mA, IB= -1mA

NPN complementary pair with CP872

[Absolute maximum ratings (Ta= 25C)]

Characteristic	Symbol	Maximum ratings	Unit
Collector-base voltage	VCBO	-300	V
Collector-emitter voltage	VCEO	-300	V
Emitter-base voltage	VEBO	-7	V
Collector current	IC	-50	mA
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	-300	-	-	V	IC= -100uA, IE= 0A
Collector-emitter breakdown voltage	BVCEO	-300	-	-	V	IC= -1mA, IB= 0A
Emitter-base breakdown voltage	BVEBO	-7	-	-	V	IE= -100uA, IC= 0A
Collector cut-off current	ICBO	-	-	-0.5	uA	VCB= -300V, IE= 0A
Emitter cut-off current	IEBO	-	-	-0.5	uA	VEB= -7V, IC= 0A
Collector cut-off current	ICEO	-	-	-2	uA	VCE= -300V, IB= 0A
DC current gain	hFE	54	-	310	-	VCE= -10V, IC= -10mA
Collector-emitter saturation voltage	VCE(sat)	-	-	-0.5	V	IC= -10mA, IB= -1mA
Base-emitter saturation voltage	VBE(sat)	-	-	-1	V	IC= -10mA, IB= -1mA
Transition frequency	fT	-	60	-	MHz	VCE= -10V, IE= 10mA
Collector output capacitance	Cob	-	1.8	-	p F	VCB= -20V, 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.

No. AP872-20110511

