

Silicon PNP transistor epitaxial type BP013

[Applications]

General purpose

[Feature]

Low collector saturation voltage VCE(sat)= -0.4V(Max.) at IC= -0.5A, IB= -50mA

[Absolute maximum ratings (Ta=25C)]

Characteristic	Symbol	Maximum ratings	Unit
Collector-base voltage	VCBO	-80	V
Collector-emitter voltage	VCEO	-80	V
Emitter-base voltage	VEBO	-5	V
Collector current	IC	-0.7	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= -50uA, IE= 0A
Collector-emitter breakdown voltage	BVCEO	-80	-	-	V	IC= -2mA, IB= 0A
Emitter-base breakdown voltage	BVEBO	-5	-	-	V	IE= -50uA, IC= 0A
Collector-cut off current	ICBO	-	-	-500	nA	VCB= -50V, IE= 0A
Emitter-cut off current	IEBO	-	-	-500	nA	VEB= -4V, IC= 0A
DC current gain	hFE	56	-	777	-	VCE= -3V, IC= -0.1A
Collector-emitter saturation voltage	VCE(sat)	-	-0.2	-0.4	V	IC= -0.5A, IB= -50mA
Transition frequency	fT	-	100	-	MHz	VCE= -10V, IE= 50mA
Collector output capacitance	Cob	-	14	20	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.