

**Silicon PNP transistor epitaxial type
BP010**

[Applications]

General purpose

[Feature]

Low collector saturation voltage $V_{CE(sat)} = -0.4V(\text{Max.})$ at $I_C = -0.1A$, $I_B = -10mA$

[Absolute maximum ratings ($T_a=25C$)]

Characteristic	Symbol	Maximum ratings	Unit
Collector-base voltage	VCBO	-40	V
Collector-emitter voltage	VCEO	-32	V
Emitter-base voltage	VEBO	-5	V
Collector current	IC	-0.5	A
Junction temperature	Tj	150	C
Storage temperature	Tstg	-55 to 150	C

[Electrical characteristics ($T_a=25C$)]

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BVCBO	-40	-	-	V	$I_C = -100\mu A$, $I_E = 0A$
Collector-emitter breakdown voltage	BVCEO	-32	-	-	V	$I_C = -1mA$, $I_B = 0A$
Emitter-base breakdown voltage	BVEBO	-5	-	-	V	$I_E = -100\mu A$, $I_C = 0A$
Collector-cut off current	ICBO	-	-	-1	μA	$V_{CB} = -20V$, $I_E = 0A$
Emitter-cut off current	IEBO	-	-	-1	μA	$V_{EB} = -4V$, $I_C = 0A$
DC current gain	hFE	82	-	390	-	$V_{CE} = -3V$, $I_C = -10mA$
Collector-emitter saturation voltage	$V_{CE(sat)}$	-	-	-0.4	V	$I_C = -0.1A$, $I_B = -10mA$
Transition frequency	fT	-	200	-	MHz	$V_{CE} = -5V$, $I_E = 20mA$
Collector output capacitance	Cob	-	7.5	-	pF	$V_{CB} = -10V$, $f = 1MHz$, $I_E = 0A$

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.