

Silicon NPN transistor epitaxial type DP005

[Applications]

General purpose

[Feature]

Low collector saturation voltage VCE(sat)= 0.33V(Max.) at IC= 100mA, IB= 10mA

[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	4	V
Collector current	IC	500	mA
Junction temperature	Tj	125	C
Storage temperature	Tstg	-55 to 125	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	80	-	-	V	IC= 1mA, IB= 0A
Emitter-base breakdown voltage	BVEBO	4	-	-	V	IE= 100uA, IC= 0A
Collector cutoff current	ICBO	-	-	100	nA	VCB= 80V
Collector cutoff current	ICEO	-	-	100	nA	VCE= 60V
Emitter cutoff current	IEBO	-	-	100	nA	VEB= 5V
DC current gain 1	hFE 1	90	-	-	-	VCE= 1V, IC= 10mA
DC current gain 2	hFE 2	90	-	-	-	VCE= 1V, IC= 100mA
Collector-emitter saturation voltage	VCE(sat)	-	-	0.33	V	IC= 100mA, IB= 10mA
Transition frequency	fT	-	115	-	MHz	VCE= 2V, IE= -10mA
Collector output capacitance	Cob	-	4.5	-	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.

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