

Silicon NPN transistor epitaxial type

DP010

[Applications]

General purpose

[Feature]

Low collector saturation voltage VCE(sat)= 0.4V(Max.) at IC= 100mA, IB= 10mA

[Absolute maximum ratings (Ta=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 (Ta=25C)]

Characteristic	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	BVCBO	40	-	-	V	IC= 100uA, IE= 0A
Collector-emitter breakdown voltage	BVCEO	32	-	-	V	IC= 1mA, IB= 0A
Emitter-base breakdown voltage	BVEBO	5	-	-	V	IE= 100uA, IC= 0A
Collector-cut off current	ICBO	-	-	1	uA	VCB= 20V, IE= 0A
Emitter-cut off current	IEBO	-	-	1	uA	VEB= 4V, IC= 0A
DC current gain	hFE	82	-	390	-	VCE= 3V, IC= 10mA
Collector-emitter saturation voltage	VCE(sat)	-	-	0.4	V	IC= 100mA, IB= 10mA
Transition frequency	fT	-	250	-	MHz	VCE= 5V, IE= -20mA
Collector output capacitance	Cob	-	6.2	-	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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