

Silicon NPN transistor epitaxial type

DP021

[Applications]

General purpose

[Feature]

Low collector saturation voltage VCE(sat)= 0.5V(Max.) at IC= 3A, IB= 0.1A

[Absolute maximum ratings (Ta=25C)]

Characteristic	Symbol	Maximum ratings	Unit
Collector-base voltage	VCBO	80	V
Collector-emitter voltage	VCEO	75	V
Emitter-base voltage	VEBO	7	V
Collector current	IC	2	A
Junction temperature	T _j	150	C
Storage temperature	T _{stg}	-55 to 150	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	75	-	-	V	IC= 100mA, IB= 0A
Emitter-base breakdown voltage	BVEBO	7	-	-	V	IE= 100uA, IC= 0A
Collector cut-off current	ICBO	-	-	5	uA	VCB= 80V
Emitter cut-off current	IEBO	-	-	100	uA	VEB= 5V
DC current gain 1	hFE 1	30	-	130	-	VCE= 4V, IC= 0.5A
DC current gain 2	hFE 2	10	-	-	-	VCE= 2V, IC= 1A
Collector-emitter saturation voltage	VCE(sat)	-	-	0.5	V	IC= 3A, IB= 0.1A

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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