

## Silicon NPN transistor epitaxial type

**6C380**

### [ Applications ]

General purpose

### [ Feature ]

Low collector saturation voltage VCE(sat)= 0.4V(Max.) at IC= 10mA, IB= 1mA

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

Characteristic	Symbol	Maximum ratings	Unit
Collector-base voltage	VCBO	35	V
Collector-emitter voltage	VCEO	30	V
Emitter-base voltage	VEBO	4	V
Collector current	IC	50	mA
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	35	-	-	V	IC= 100uA, IE= 0A
Collector-emitter breakdown voltage	BVCEO	30	-	-	V	IC= 1mA, IB= 0A
Emitter-base breakdown voltage	BVEBO	4	-	-	V	IE= 100uA, IC= 0A
Collector cutoff current	ICBO	-	-	100	nA	VCB= 35V
Emitter cutoff current	IEBO	-	-	1	uA	VEB= 4V
DC current gain	hFE	36	-	265	-	VCE= 12V, IC= 2mA
Collector-emitter saturation voltage	VCE(sat)	-	-	0.4	V	IC= 10mA, IB= 1mA
Transition frequency	fT	100	150	-	MHz	VCE= 10V, IE= -1mA
Collector output capacitance	Cob	-	2	3.2	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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