

## Silicon NPN transistor epitaxial type D5832

### [ Applications ]

General purpose

### [ Feature ]

Low collector saturation voltage VCE(sat)= 0.8V(Max.) at IC= 2A, IB= 0.2A

### [ 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	2	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= 50uA, IE= 0A
Collector-emitter breakdown voltage	BVCEO	32	-	-	V	IC= 1mA, IB= 0A
Emitter-base breakdown voltage	BVEBO	5	-	-	V	IE= 50uA, IC= 0A
Collector cut-off current	ICBO	-	-	1	uA	VCB= 20V
Emitter cut-off current	IEBO	-	-	1	uA	VEB= 4V
DC current gain	hFE	82	-	360	-	VCE= 3V, IC= 0.5A
Collector-emitter saturation voltage	VCE(sat)	-	-	0.8	V	IC= 2A, IB= 0.2A
Transition frequency	f T	-	100	-	MHz	VCE= 5V, IE= -0.5A
Collector output capacitance	Cob	-	30	-	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.

