

**Silicon PNP transistor epitaxial type**
**A5837**
**[ Applications ]**

General purpose transistors

Medium power amplifier and switching

**[ Feature ]**

High collector current ICM= 1A

High DC current gain hFE= 800(Max.) at VCE= -4V, IC= -100mA

Low collector saturation voltage VCE(sat)= -0.5V(Max.) at IC= -500mA, IB= -25mA

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

Characteristic	Symbol	Maximum ratings	Unit
Collector-base voltage	VCBO	-25	V
Collector-emitter voltage	VCEO	-20	V
Emitter-base voltage	VEBO	-4	V
Collector current (DC)	IC	-700	mA
Collector current (Pulse)	ICP	-1	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	-25	-	-	V	IC= -10uA, IE= 0A
Collector-emitter breakdown voltage	BVCEO	-20	-	-	V	IC= -100uA, IB= 0A
Emitter-base breakdown voltage	BVEBO	-4	-	-	V	IE= -10uA, IC= 0A
Collector cut-off current	ICBO	-	-	-1	uA	VCB= -25V, IE= 0A
Emitter cut-off current	IEBO	-	-	-1	uA	VEB= -2V, IE= 0A
DC current gain	hFE	150	-	800	-	VCE= -4V, IC= -100mA
Collector-emitter saturation voltage	VCE(sat)	-	-0.2	-0.5	V	IC= -500mA, IB= -25mA
Transition frequency	fT	-	180	-	MHz	VCE= -6V, IE= 10mA
Collector output capacitance	Cob	-	12	-	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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