

**Silicon PNP transistor epitaxial type  
A5920**

**[ Applications ]**

Muting and switching with high hFE & low VCE(sat)

Low frequency signal amplification with less power consumption

**[ Feature ]**

High level collector current IC= -500mA

High level DC current gain hFE= 270~680

Low collector saturation voltage VCE(sat)= -0.1V(Typ.) at IC= -200mA, IB= -10mA

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

Characteristic	Symbol	Maximum ratings	Unit
Collector-base voltage	VCBO	-15	V
Collector-emitter voltage	VCEO	-12	V
Emitter-base voltage	VEBO	-6	V
Collector current	IC	-500	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	-15	-	-	V	IC= -10uA, IE= 0A
Collector-emitter breakdown voltage	BVCEO	-12	-	-	V	IC= -1mA, IB= 0A
Emitter-base breakdown voltage	BVEBO	-6	-	-	V	IE= -10uA, IC= 0A
Collector cut-off current	ICBO	-	-	-0.1	uA	VCB= -15V, IE= 0A
Emitter cut-off current	IEBO	-	-	-0.1	uA	VEB= -6V, IE= 0A
DC current gain	hFE	270	-	680	-	VCE= -2V, IC= -10mA
Collector-emitter saturation voltage	VCE(sat)	-	-0.1	-0.25	V	IC= -200mA, IB= -10mA
Transition frequency	fT	-	260	-	MHz	VCE= -2V, IE= 10mA
Collector output capacitance	Cob	-	6.5	-	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.

