

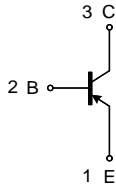
General Purpose Amplifier

PNP - 40V, - 0.5A

Features

Collector current to 500mA

Schematic Diagram



Ordering Information

Type	Package	Pin 1,2,3	Mark	Shipping
2SA205H	SOT-23	E, B, C	TA5	3kpcs/Reel&Tape
2SA205S	TO-92	E, B, C	TA5	3kpcs/Reel&Tape

Maximum ratings (Ta = 25)

Parameter	Symbol	Limit	Unit	
Collector-Base Voltage	V_{CBO}	-40	V	
Collector-Emitter Voltage	V_{CEO}	-40	V	
Emitter-Base Voltage	V_{EBO}	-5.0	V	
Collector Current	I_C	-500	mA	
Collector power dissipation	2SA205H	Pc	350	mW
	2SA205S			
Junction Temperature	T_j	150		
Storage Temperature	T_{stg}	-55 to+150		

Electrical characteristics (Ta = 25)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Collector-base breakdown voltage	V_{CBO}	-40			V	$I_C=0.1mA, I_E=0$
Collector-emitter breakdown voltage	V_{CEO}	-40			V	$I_C=1.0mA, I_B=0$
Emitter-base breakdown voltage	V_{EBO}	-5.0			V	$I_E=0.1A, I_C=0$
Collector cutoff current	I_{CBO}			-0.1	μA	$V_{CE}=35V, V_{BE}=0.4V$
Emitter cutoff current	I_{BEX}			-0.1	μA	$V_{CE}=35V, V_{EB}=0.4V$
Collector-emitter saturation voltage	$V_{CE(sat)}$			-0.75	V	$I_C=-500mA, I_B=-50mA$
DC current transfer ratio	h_{FE}	90		365		$I_C=-150mA, V_{CE}=-2.0V$
Transition frequency	f_T	200			MHz	$I_E=50mA, V_{CE}=-20V f=100MHz$
Output capacitance	Cob			8.5	pF	$V_{CB}=10V, I_E=0 f=140kHz$

