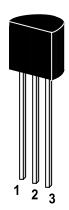
NPN Silicon Epitaxial Planar Transistor

Low frequency amplifier applications.

The transistor is subdivided into three groups, B, C and D, according to its DC current gain. As complementary type the PNP transistor ST 2SA673 and ST 2SA673A are recommended.

On special request, these transistors can be manufactured in different pin configurations.



1. Emitter 2. Collector 3. Base

TO-92 Plastic Package Weight approx. 0.19g

Absolute Maximum Ratings (T_a = 25 °C)

	Symbol	Value		Unit
		ST 2SC1213	ST 2SC1213A	
Collector Base Voltage	V _{CBO}	35	50	V
Collector Emitter Voltage	V _{CEO}	35	50	V
Emitter Base Voltage	V _{EBO}	4		V
Collector Current	Ic	500		mA
Power Dissipation	P _{tot}	400		mW
Junction Temperature	T _j	150		°С
Storage Temperature Range	Ts	-55 to	оС	







ST 2SC1213 / 2SC1213A

Characteristics at T_{amb}=25 °C

		Symbol	Min.	Тур.	Max.	Unit
DC Current Gain						
at I _C =10mA, V _{CE} =3V						
	В	h_{FE}	60	-	120	-
	С	h _{FE}	100	-	200	-
	D	h _{FE}	160	-	320	-
at I _C =500mA, V _{CE} =3V		h_{FE}	10	-	-	-
Collector Cutoff Current						
at V _{CB} =20V	ST 2SC1213	I_{CBO}	-	-	0.5	μΑ
V _{CB} =20V	ST2SC1213A	I_{CBO}	-	-	0.5	μΑ
Collector Base Breakdown Voltage						
at I _C =10μΑ	ST 2SC1213	$V_{(BR)CBO}$	35	-	-	V
	ST 2SC1213A	$V_{(BR)CBO}$	50	-	-	V
Collector Emitter Breakdown Voltage						
at I _C =1mA	ST 2SC1213	$V_{(BR)CEO}$	35	-	-	V
	ST 2SC1213A	$V_{(BR)CEO}$	50	-	-	V
Emitter Base Breakdown Voltage						
at I _ε =10μΑ	ST 2SC1213	$V_{(BR)EBO}$	4	-	-	V
	ST 2SC1213A	$V_{(BR)EBO}$	4	-	-	V
Collector Saturation Voltage						
at I _C =150mA, I _B =15mA	ST 2SC1213	$V_{CE(sat)}$	-	0.2	0.6	V
	ST 2SC1213A	$V_{CE(sat)}$	-	0.2	0.6	V
Base Emitter Voltage						
at I _C =10mA, V _{CE} =3V	ST 2SC1213	V_{BE}	-	0.64	-	V
	ST 2SC1213A	V_{BE}	-	0.64	-	V









