

RoHS Compliant Product  
A suffix of "-C" specifies halogen and lead free

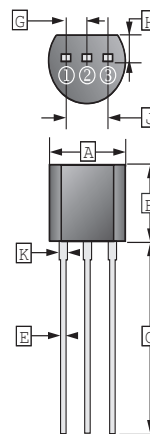
### FEATURES

- Low frequency amplifier
- Complementary pair with 2SA673 and 2SA673A

### CLASSIFICATION OF $h_{FE(1)}$

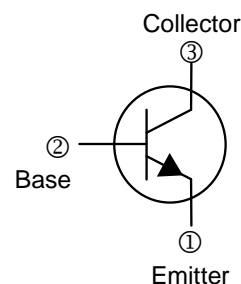
Product-Rank	2SC1213-B	2SC1213-C	2SC1213-D
Product-Rank	2SC1213A-B	2SC1213A-C	2SC1213A-D
Range	60~120	100~200	160~320

### TO-92



① Emitter  
② Collector  
③ Base

REF.	Millimeter	
	Min.	Max.
A	4.40	4.70
B	4.30	4.70
C	12.70	-
D	3.30	3.81
E	0.36	0.56
F	0.36	0.51
G	1.27 TYP.	
H	1.10	-
J	2.42	2.66
K	0.36	0.76



### ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	35	V
		50	
Collector to Emitter Voltage	$V_{CEO}$	35	V
		50	
Emitter to Base Voltage	$V_{EBO}$	4	V
Continuous Collector Current	$I_C$	500	mA
Collector Power Dissipation	$P_C$	400	mW
Junction, Storage Temperature	$T_J, T_{STG}$	150, -55~150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	35	-	-	V	$I_C=10\mu\text{A}, I_E=0$
		50	-	-		
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	35	-	-	V	$I_C=1\text{mA}, I_B=0$
		50	-	-		
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	4	-	-	V	$I_E=10\mu\text{A}, I_C=0$
Collector Cut - Off Current	$I_{CBO}$	-	-	0.5	$\mu\text{A}$	$V_{CB}=20\text{V}, I_E=0$
DC Current Gain	$h_{FE(1)}$	60	-	320		$V_{CE}=3\text{V}, I_C=10\text{mA}$
	$h_{FE(2)}$	10	-	-		$V_{CE}=3\text{V}, I_C=500\text{mA}$
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.6	V	$I_C=150\text{mA}, I_B=15\text{mA}$

**CHARACTERISTIC CURVES**

