2SC1213 TRANSISTOR (NPN)

TO-92

1.EMITTER
2.COLLECTOR
3.BASE

FEATURES

- Low Frequency Amplifier
- Complementary Pair With 2SA673

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC1213	TO-92	Bulk	1000pcs/Bag
2SC1213-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	35	V
V_{CEO}	Collector-Emitter Voltage	35	V
V_{EBO}	Emitter-Base Voltage	4	V
I_C	Collector Current -Continuous	0.5	A
P_D	Collector Power Dissipation	400	mW
$R_{\theta JA}$	Thermal Resistance ˘rom Junction ˘o Ambient	312	℃ /W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

T_a=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C= 0.01mA,I_E=0	35			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=1mA,I_B=0	35			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=0.01mA,I_C=0	4			V
Collector cut-off current	I_{CBO}	V_{CB}=20V,I_E=0			0.5	μA
Emitter cut-off current	I_{EBO}	V_{EB}=3V,I_C=0			0.1	μA
DC current gain	$h_{FE(1)}$	V_{CE}=3V, I_C=10mA	60		320	
	$h_{FE(2)}$	V_{CE}=3V, I_C=500mA	10			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=150mA,I_B=15mA			0.6	V
Base-emitter voltage	V_{BE}	V_{CE}=3V, I_C=10mA			0.75	V

CLASSIFICATION OF $h_{FE(1)}$

RANK	B	C	D
RANGE	60-120	100-200	160-320