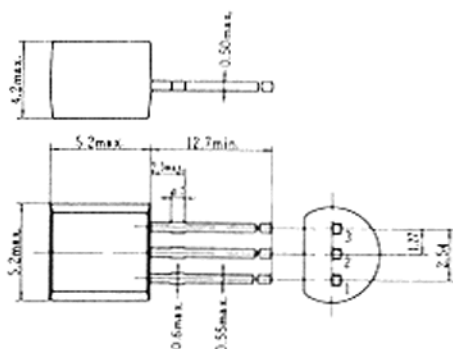


2SC1214

SILICON NPN EPITAXIAL
LOW FREQUENCY AMPLIFIER



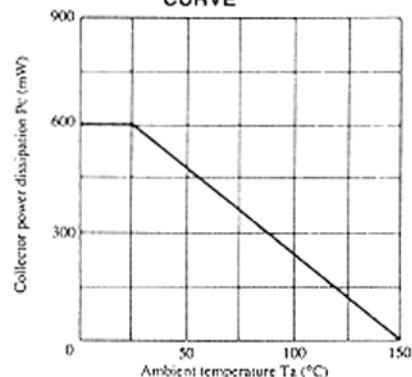
(JEDEC TO-92)

1. Emitter
2. Collector
3. Base
(Dimensions in mm)

■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Item	Symbol	2SC1214	Unit
Collector to base voltage	V _{CB0}	50	V
Collector to emitter voltage	V _{CE0}	50	V
Emitter to base voltage	V _{EB0}	4	V
Collector current	I _C	500	mA
Collector power dissipation	P _C	600	mW
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

MAXIMUM COLLECTOR DISSIPATION CURVE



■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

Item	Symbol	Test Condition	min.	typ.	max.	Unit
Collector to base breakdown voltage	V _{(BR)CBO}	I _C = 10μA, I _E = 0	50	—	—	V
Collector to emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA, R _{BE} = ∞	50	—	—	V
Emitter to base breakdown voltage	V _{(BR)EBO}	I _E = 10μA, I _C = 0	4	—	—	V
Collector cutoff current	I _{CB0}	V _{CB} = 20V, I _E = 0	—	—	0.5	μA
DC current transfer ratio	h _{FE} *	V _{CE} = 3V, I _C = 10mA	60	—	320	
	h _{FE}	V _{CE} = 3V, I _C = 500mA (pulse test)	10	—	—	
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = 150mA, I _B = 15mA	—	0.2	0.6	V
Base to emitter voltage	V _{BE}	V _{CE} = 3V, I _C = 10mA	—	0.64	—	V

* The 2SC1214 is grouped by h_{FE} as follows.

B	C	D
60 to 120	100 to 200	160 to 320

■ See characteristic curves of 2SC1213.