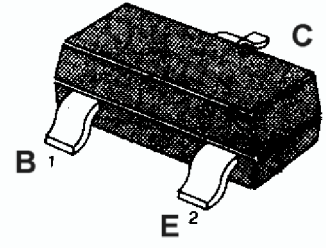


**APPLICATION:** General Purpose Amplifier.

**MAXIMUM RATINGS** (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CBO</sub>	180	V
Collector-emitter voltage	V <sub>CEO</sub>	160	V
Emitter-base voltage	V <sub>EBO</sub>	6	V
Collector current	I <sub>C</sub>	600	mA
Collector Power Dissipation	P <sub>C</sub>	150	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55~150	°C

**SOT-23**


1.Base 2 .Emitter 3 .Collector

**ELECTRICAL CHARACTERISTICS** (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h <sub>FE1</sub>	80		250		V <sub>CE</sub> = 5V, I <sub>C</sub> = 10mA
	h <sub>FE2</sub>	30				V <sub>CE</sub> = 5V, I <sub>C</sub> = 50mA
Collector Cut-off Current	I <sub>CBO</sub>			0.05	μA	V <sub>CB</sub> = 120V, I <sub>E</sub> =0
Emitter Cut-off Current	I <sub>EBO</sub>			0.05	μA	V <sub>EB</sub> = 4V, I <sub>C</sub> =0
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	180			V	I <sub>C</sub> = 0.1mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	160			V	I <sub>C</sub> = 1mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	6			V	I <sub>E</sub> = 0.1mA, I <sub>C</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			0.15	V	I <sub>C</sub> = 10mA, I <sub>B</sub> = 1mA
	V <sub>CE(sat)</sub>			0.2	V	I <sub>C</sub> = 50mA, I <sub>B</sub> = 5mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>			1	V	I <sub>C</sub> = 10mA, I <sub>B</sub> = 1mA
	V <sub>BE(sat)</sub>			1	V	I <sub>C</sub> = 50mA, I <sub>B</sub> = 5mA
Gain bandwidth product	f <sub>T</sub>	100			MHz	I <sub>C</sub> = 10mA, V <sub>CE</sub> = 10V
Common Base Output Capacitance	C <sub>ob</sub>			6	PF	V <sub>CB</sub> = 10V, I <sub>E</sub> =0, f = 1MHz
Noise Figure	N <sub>F</sub>			8	dB	V <sub>CE</sub> =5V, I <sub>C</sub> =0.25mA, f =15.7KHz, R <sub>g</sub> =1KΩ

**h<sub>FE</sub> Classification And Marking**

Print Mark	2L
Classification	
h <sub>FE1</sub>	80~250