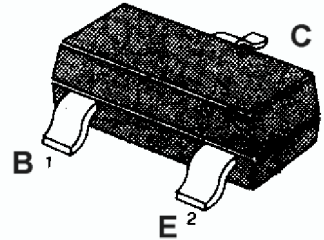


**APPLICATION:** GENERAL PURPOSE AMPLIFY APPLICATIONS,  
WITCHING APPLICATION,DRIVER APPLICATION.

**MAXIMUM RATINGS** (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CB0</sub>	-55	V
Collector-emitter voltage	V <sub>CEO</sub>	-50	V
Emitter-base voltage	V <sub>EBO</sub>	-5	V
Collector current	I <sub>c</sub>	-150	mA
Collector Power Dissipation	P <sub>c</sub>	200	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>FE</sub>	82		820		V <sub>CE</sub> = -6V, I <sub>c</sub> = -1mA
Collector Cut-off Current	I <sub>CBO</sub>			-0.1	μA	V <sub>CB</sub> = -50V, I <sub>E</sub> =0
Emitter Cut-off Current	I <sub>EBO</sub>			-0.1	μA	V <sub>EB</sub> = -5V, I <sub>c</sub> =0
Collector-Base Breakdown Voltage	BV <sub>CB0</sub>	-55			V	I <sub>c</sub> = -0.1mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	-50			V	I <sub>c</sub> = -1mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	-5			V	I <sub>E</sub> = -0.1mA, I <sub>c</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			-0.3	V	I <sub>c</sub> = -100mA, I <sub>B</sub> = -10mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>			-1	V	I <sub>c</sub> = -100mA, I <sub>B</sub> = -10mA
Gain bandwidth product	f <sub>T</sub>	140			MHz	I <sub>c</sub> = -2mA, V <sub>CE</sub> = -10V
Common Base Output Capacitance	C <sub>ob</sub>			3.5	PF	V <sub>CB</sub> = -10V, I <sub>E</sub> =0, f= 1MHz

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

Print Mark	FR				
Classification	P	Q	R	S	E
h <sub>FE</sub>	82~180	120~270	180~390	270~560	390~820