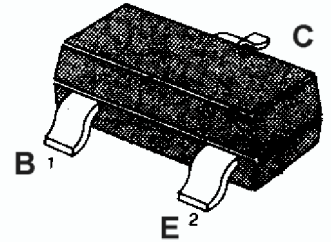


**APPLICATION:** General Purpose Applications.

**MAXIMUM RATINGS** (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CB0</sub>	50	V
Collector-emitter voltage	V <sub>CEO</sub>	40	V
Emitter-base voltage	V <sub>EBO</sub>	5	V
Collector current	I <sub>C</sub>	100	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>	120		560		V <sub>CE</sub> = 6V, I <sub>C</sub> = 1mA
Collector Cut-off Current	I <sub>CB0</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>	50			V	I <sub>C</sub> = 0.1mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	40			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>			0.25	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> = 1mA, 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 BR

Classification

 h<sub>FE</sub> 200-300