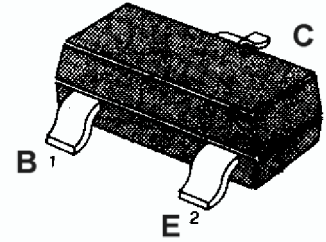


**APPLICATION:** GENERAL PURPOSE AMPLIFY APPLICATIONS,

SWITCHING APPLICATION.

**MAXIMUM RATINGS** (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CB0</sub>	-35	V
Collector-emitter voltage	V <sub>CEO</sub>	-30	V
Emitter-base voltage	V <sub>EBO</sub>	-5	V
Collector current	I <sub>c</sub>	-500	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>	70		240		V <sub>CE</sub> = -1V, I <sub>c</sub> =-100 mA
	h <sub>FE2</sub>	25				V <sub>CE</sub> = -6V, I <sub>c</sub> =-400 mA
Collector Cut-off Current	I <sub>CBO</sub>			-0.1	μA	V <sub>CB</sub> = -35V, 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>	-35			V	I <sub>c</sub> = -0.1mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	-30			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> = -0.1 mA, I <sub>c</sub> =0
Base-Emitter Voltage	V <sub>BE</sub>		-0.8	-1	V	V <sub>CE</sub> = -1V, I <sub>c</sub> = -100mA
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>		-0.1	-0.25	V	I <sub>c</sub> = -100mA, I <sub>B</sub> = -10mA
Gain bandwidth product	f <sub>T</sub>	150	200		MHz	I <sub>c</sub> = -20mA, V <sub>CE</sub> = -6V
Common Base Output Capacitance	C <sub>ob</sub>		13		PF	V <sub>CB</sub> = -6V, I <sub>E</sub> =0, f= 1 MHz

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

Print Mark	AZO	AZY	AZI
Classification	O	Y	I
h <sub>FE1</sub>	70~140	120~240	> 240