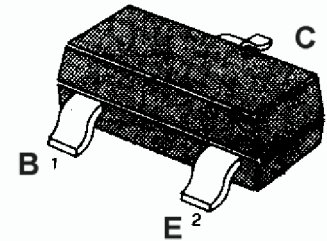


APPLICATION: Audio Frequency Low Power Amplifier Applications.

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CB0}	-35	V
Collector-emitter voltage	V_{CE0}	-30	V
Emitter-base voltage	V_{EB0}	-5	V
Collector current	I_c	-500	mA
Collector Power Dissipation	P_c	150	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55~150	$^\circ\text{C}$

SOT-23


1.Base 2 .Emitter 3 .Collector

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h_{FE1}	70		240		$V_{CE} = -1\text{V}$, $I_c = -100\text{mA}$
	h_{FE2}	25				$V_{CE} = -6\text{V}$, $I_c = -400\text{mA}$
Collector Cut-off Current	I_{CBO}			-0.1	μA	$V_{CB} = -35\text{V}$, $I_E = 0$
Emitter Cut-off Current	I_{EBO}			-0.1	μA	$V_{EB} = -5\text{V}$, $I_c = 0$
Collector-Base Breakdown Voltage	BV_{CB0}	-35			V	$I_c = -0.1\text{mA}$, $I_E = 0$
Collector-Emitter Breakdown Voltage	BV_{CE0}	-30			V	$I_c = -1\text{mA}$, $I_B = 0$
Emitter-Base Breakdown Voltage	BV_{EB0}	-5			V	$I_E = -0.1\text{mA}$, $I_c = 0$
Base-Emitter Voltage	V_{BE}		-0.8	-1	V	$V_{CE} = -1\text{V}$, $I_c = -100\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-0.1	-0.25	V	$I_c = -100\text{mA}$, $I_B = -10\text{mA}$
Gain bandwidth product	f_T	100	200		MHz	$I_c = -20\text{mA}$, $V_{CE} = -6\text{V}$
Common Base Output Capacitance	C_{ob}		13		PF	$V_{CB} = -6\text{V}$, $I_E = 0$, $f = 1\text{MHz}$

 h_{FE} Classification And Marking

Print Mark	ZO	ZY
Classification	O	Y
h_{FE1}	70~140	120~240