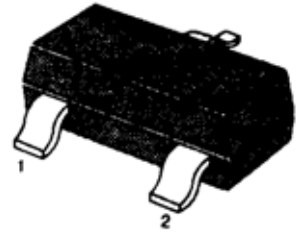


■■ APPLICATION: Audio Frequency General Purpose Amplifier Applications.

SOT-323

■■ MAXIMUM RATINGS (T_a=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	-120	V
Collector-emitter voltage	V _{CEO}	-120	V
Emitter-base voltage	V _{EBO}	-5	V
Collector Current	I _C	-100	mA
Emitter Current	I _B	-20	mA
Collector Power Dissipation	P _C	100	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C



1. Base 2. Emitter 3. Collector

■■ ELECTRICAL CHARACTERISTICS (T_a=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	120		700		V _{CE} = -6V, I _E = -2mA
Collector Cut off Current	I _{CBO}			0.1	μA	V _{CB} = -120V, I _E =0
Emitter Cut off Current	I _{EBO}			0.1	μA	V _{EB} = -5V, I _C =0
Collector Base Breakdown Voltage	BV _{CB0}	120			V	I _C = -0.1mA, I _E =0
Collector Emitter Breakdown Voltage	BV _{CEO}	120			V	I _C = -1mA, I _B =0
Emitter Base Breakdown Voltage	BV _{EBO}	5			V	I _E = -0.1mA, I _C =0
Collector Emitter Saturation Voltage	V _{CE(sat)}			0.3	V	I _C = -10mA, I _B = -1mA
Gain bandwidth product	f _T	50	100		MHz	I _C = -6mA, V _{CE} = -1V
Common Base Output Capacitance	C _{ob}		4		PF	V _{CB} = -10V, I _E =0, f= 1MHz
Noise Figure	N _F		1	10	dB	V _{CE} = -6V, I _C = -0.1mA, f= 1KHz, R _g = 10KΩ

■■ h_{FE} Classification And Marking

Print Mark	CY	CG1	CL1
Classification	Y	GR	BL
h _{FE}	120~240	200~400	350~700