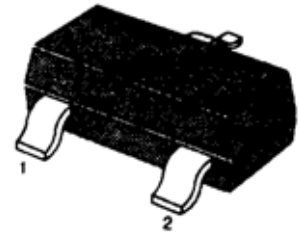


**■■ APPLICATION:** Audio Frequency General Purpose Amplifier.

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

SOT-323

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	$V_{CB0}$	60	V
Collector-emitter voltage	$V_{CEO}$	50	V
Emitter-base voltage	$V_{EBO}$	5	V
Collector current	$I_c$	150	mA
Collector Power Dissipation	$P_c$	100	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55~150	$^\circ\text{C}$



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	$h_{FE}$	70		700		$V_{CE}=6V, I_c=2mA$
Collector Cut-off Current	$I_{CBO}$			0.1	$\mu\text{A}$	$V_{CB}=60V, I_E=0$
Emitter Cut-off Current	$I_{EBO}$			0.1	$\mu\text{A}$	$V_{EB}=5V, I_c=0$
Collector-Base Breakdown Voltage	$BV_{CB0}$	60			V	$I_c=0.1mA, I_E=0$
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	50			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	$V_{CE(sat)}$		0.1	0.25	V	$I_c=100mA, I_B=10mA$
Gain bandwidth product	$f_T$	150	270		MHz	$I_c=10mA, V_{CE}=5V$
Common Base Output Capacitance	$C_{ob}$		2	3.5	PF	$V_{CB}=10V, I_E=0, f=1MHz$
Noise Figure	$N_F$		1	10	dB	$V_{CE}=6V, I_c=0.1mA, f=1KHz, R_g=10K\Omega$

**■■ hFE Classification And Marking**

Print Mark	LO	LY	LG	LL
Classification	O	Y	GR	BL
$h_{FE}$	70~140	120~240	200~400	350~700