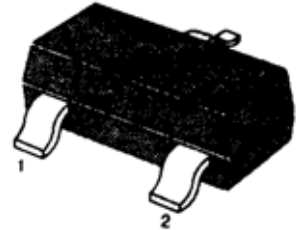


■ ■ APPLICATION: General small signal applications.

■ ■ MAXIMUM RATINGS (Ta=25°C)

SOT-323

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CBO}	-40	V
Collector-emitter voltage	V_{CEO}	-40	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_C	-200	mA
Collector Power Dissipation	P_C	225	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C



1.Base 2. Emitter 3. Collector

■ ■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h_{FE}	100		300		$V_{CE} = -1V, I_C = -10mA$
Collector Cut-off Current	I_{CBO}			-0.05	μA	$V_{CB} = -30V, I_E = 0$
Emitter Cut-off Current	I_{EBO}			-0.05	μA	$V_{EB} = -3V, I_C = 0$
Collector-Base Breakdown Voltage	BV_{CBO}	-40			V	$I_C = -0.01mA, I_E = 0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-40			V	$I_C = -1mA, I_B = 0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-5			V	$I_E = -0.01mA, I_C = 0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-0.25	V	$I_C = -10mA, I_B = -1mA$
	$V_{CE(sat)}$			-0.4	V	$I_C = -50mA, I_B = -5mA$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	-0.65		-0.85	V	$I_C = -10mA, I_B = -1mA$
	$V_{BE(sat)}$			-0.95	V	$I_C = -50mA, I_B = -5mA$
Gain bandwidth product	f_T	250			MHz	$I_C = -10mA, V_{CE} = -20V$
Common Base Output Capacitance	C_{ob}			4.5	PF	$V_{CB} = -5V, I_E = 0, f = 1MHz$
Noise Figure	N_F			4	dB	$I_C = -0.1mA, V_{CE} = -5V, f = 15.7KHz, R_g = 1K\Omega$

■ ■ h_{FE} Classification And Marking

Print Mark Y06

Classification

 h_{FE} 100~300