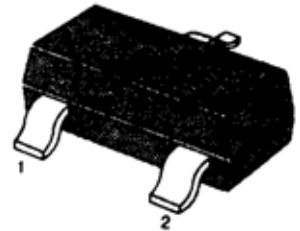


**■■ APPLICATION: POWER AMPLIFIER APPLICATION.**
**■■ MAXIMUM RATINGS (Ta=25°C)**

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	$V_{CBO}$	60	V
Collector-emitter voltage	$V_{CEO}$	40	V
Emitter-base voltage	$V_{EBO}$	6	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

SOT-323



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	$\mu A$	$V_{CB}=30V, I_E=0$
Emitter Cut-off Current	$I_{EBO}$			0.05	$\mu A$	$V_{EB}=3V, I_C=0$
Collector-Base Breakdown Voltage	$BV_{CBO}$	60			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	$BV_{EBO}$	6			V	$I_E=0.01mA, I_C=0$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			0.2	V	$I_C=10mA, I_B=1mA$
	$V_{CE(sat)}$			0.3	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	$f_T$	300			MHZ	$I_C=10mA, V_{CE}=20V$
Common Base Output Capacitance	$C_{ob}$			4	PF	$V_{CB}=5V, I_E=0, f=1MHz$
Noise Figure	$N_F$			5	dB	$I_C=0.1mA, V_{CE}=5V, f=15.7KHz, R_g=1K\Omega$

**■■  $h_{FE}$  Classification And Marking**

Print Mark                      Y04

Classification

 $h_{FE}$                               100~300