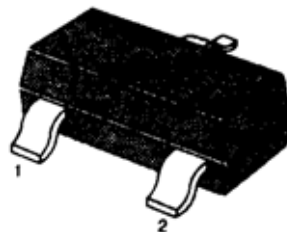


■■ APPLICATION: General purpose applications.

■■ MAXIMUM RATINGS (Ta=25°C)

SOT-323

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CBO}	30	V
Collector-emitter voltage	V_{CEO}	30	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_C	100	mA
Collector Power Dissipation	P_C	200	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}	110		800		$V_{CE}= 5V, I_C= 2mA$
Collector Cut-off Current	I_{CBO}			0.1	μA	$V_{CB}= 30V, I_E=0$
Emitter Cut-off Current	I_{EBO}			0.1	μA	$V_{EB}= 5V, I_C=0$
Collector-Base Breakdown Voltage	BV_{CBO}	30			V	$I_C= 0.1mA, I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	30			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	$V_{CE(sat)}$			0.25	V	$I_C= 10mA, I_B= 0.5mA$
	$V_{CE(sat)}$			0.6	V	$I_C= 100mA, I_B= 5mA$
Base-Emitter Saturation Voltage	$V_{BE(sat)}$		0.7		V	$I_C= 10mA, I_B= 0.5mA$
	$V_{BE(sat)}$		0.9	1.1	V	$I_C= 100mA, I_B= 5mA$
Gain bandwidth product	f_T	150	300		MHz	$I_C= 10mA, V_{CE}= 5V$
Base-Emitter Saturation Voltage	C_{ob}		3.5	6	pF	$V_{CB}= 10V, I_E=0, f= 1MHz$
Noise Figure	N_F		2	10	dB	$I_C= 0.2mA, V_{CE}= 5V, f= 1KHz, R_g= 2K\Omega$

■■ h_{FE} Classification And Marking

Print Mark	8CA	8CB	8CC
Classification	A	B	C
h_{FE}	110~220	200~450	420~800