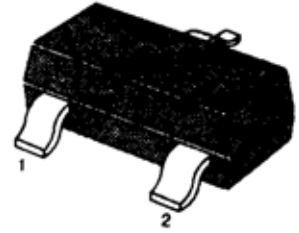


**APPLICATION:** Interface Circuit and Driver Circuit Applications.

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

SOT-323

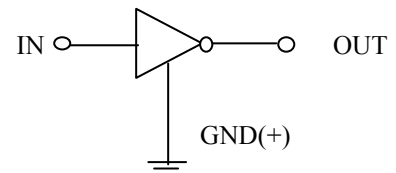
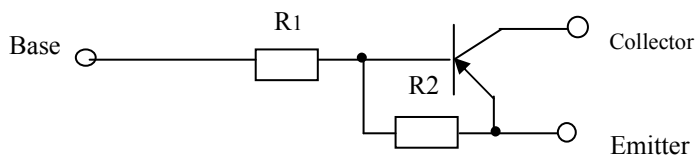
PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	$V_{CBO}$	-50	V
Collector-emitter voltage	$V_{CEO}$	-50	V
Emitter-base voltage	$V_{EBO}$	-6	V
Collector current	$I_C$	-100	mA
Collector Power Dissipation	$P_C$	100	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-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	$h_{FE}$	80				$V_{CE} = -5\text{V}, I_C = -10\text{mA}$
Collector Cut-off Current	$I_{CBO}$			-0.1	$\mu\text{A}$	$V_{CB} = -50\text{V}, I_E = 0$
Collector-Emitter Cut-off Current	$I_{CEO}$			-0.5	$\mu\text{A}$	$V_{CB} = -50\text{V}, I_E = 0$
Emitter Cut-off Current	$I_{EBO}$	-0.081		-0.15	mA	$V_{EB} = -6\text{V}, I_C = 0$
Input Voltage (ON)	$V_{I(ON)}$	-0.7		-1.8	V	$V_{CE} = -0.2\text{V}, I_C = -5\text{mA}$
Output Voltage (OFF)	$V_{I(OFF)}$	-0.5		-1	V	$V_{CE} = -5\text{V}, I_C = -0.1\text{mA}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-0.1	-0.3	V	$I_C = -5\text{mA}, I_B = -0.25\text{mA}$
Gain bandwidth product	$f_T$	100	200		MHz	$I_C = -5\text{mA}, V_{CE} = -10\text{V}$
Base Resistance	$R_1$	7	10	13	K $\Omega$	
Emitter Resistance	$R_2$	32.9	47	61.1		
Common Base Output Capacitance	$C_{ob}$		3	6	pF	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$


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

Print Mark

YH

Classification

 $h_{FE}$ 
 $\geq 80$