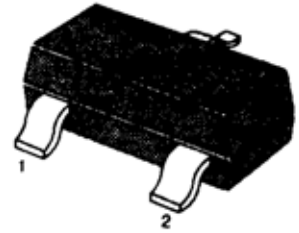


■■ APPLICATION: Interface Circuit and Driver Circuit Applications.

■■ MAXIMUM RATINGS (Ta=25°C)

SOT-323

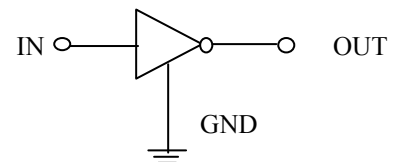
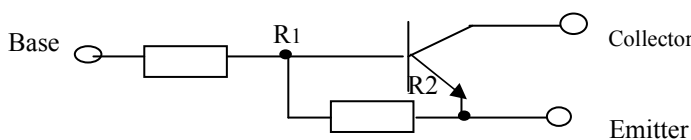
PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CB0</sub>	50	V
Collector-emitter voltage	V <sub>CEO</sub>	50	V
Emitter-base voltage	V <sub>EBO</sub>	5	V
Collector current	I <sub>C</sub>	100	mA
Collector Power Dissipation	P <sub>C</sub>	100	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-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 <sub>FE</sub>	80				V <sub>CE</sub> = 5V, I <sub>C</sub> = 10mA
Collector Cut-off Current	I <sub>CB0</sub>			0.1	μ A	V <sub>CB</sub> = 50V, I <sub>E</sub> =0
Collector-Emitter Cut-off Current	I <sub>CEO</sub>			0.5	μ A	V <sub>CB</sub> = 50V, I <sub>E</sub> =0
Emitter Cut-off Current	I <sub>EBO</sub>	0.074		0.138	mA	V <sub>EB</sub> = 5V, I <sub>C</sub> =0
Input Voltage (ON)	V <sub>I(ON)</sub>	0.7		1.3	V	V <sub>CE</sub> = 0.2V, I <sub>C</sub> = 5mA
Output Voltage (OFF)	V <sub>I(OFF)</sub>	0.5		0.8	V	V <sub>CE</sub> = 5V, I <sub>C</sub> = 0.1mA
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>		0.1	0.3	V	I <sub>C</sub> = 5mA, I <sub>B</sub> = 0.25mA
Gain bandwidth product	f <sub>T</sub>	100	250		MHz	I <sub>C</sub> = 5mA, V <sub>CE</sub> = 10V
Base Resistance	R <sub>1</sub>	3.29	4.7	6.11	K Ω	
Emitter Resistance	R <sub>2</sub>	32.9	47	61.1		
Common Base Output Capacitance	C <sub>ob</sub>		3	6	pF	V <sub>CB</sub> = 10V, I <sub>E</sub> =0, f = 1MHz



■■ h<sub>FE</sub> Classification And Marking

Print Mark

XF

Classification

h<sub>FE</sub>

≥ 80