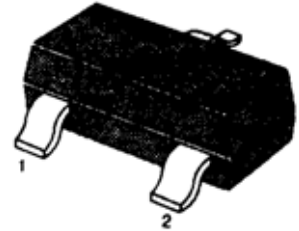


■■ APPLICATION: Interface Circuit and Driver Circuit Applications.

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

SOT-323

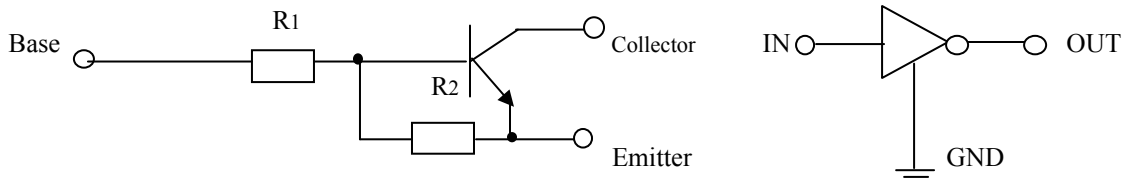
PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CC}	50	V
Collector-emitter voltage	V_{in}	-5~+10	V
Emitter-base voltage	I_o	500	mA
Collector current	$I_c (\text{max})$	500	
Collector Power Dissipation	P_c	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 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}	56				$V_o = 5\text{V}, I_o = 50\text{mA}$
Input Voltage	$V_i (\text{off})$			0.3	V	$V_{CC} = 5\text{V}, I_o = 100\mu\text{A}$
	$V_i (\text{on})$	3				$V_o = 0.3\text{V}, I_o = 20\text{mA}$
Output Voltage	$V_o (\text{on})$		0.1	0.3	V	$I_o = 50\text{mA}, I_i = 2.5\text{mA}$
Input Current	I_i			7.2	mA	$V_i = 5\text{V}$
Output Current	$I_o (\text{off})$			0.5	μA	$V_{CC} = 50\text{V}, V_i = 0\text{V}$
Input Resistance	R_1	0.7	1	1.3	$\text{K}\Omega$	
Resistance Rate	R_2 / R_1	8	10	12		
Gain bandwidth product	f_T	100	200		MHz	$I_c = 5\text{mA}, V_{CE} = 10\text{V}, f = 100\text{MHz}$


■■ h_{FE} Classification And Marking

 Print Mark G21

Classification

 $h_{FE} \geq 56$