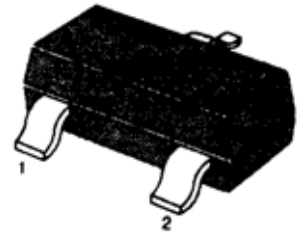


■■ APPLICATION: Interface Circuit and Driver Circuit Applications.

■■ MAXIMUM RATINGS (Ta=25°C)

SOT-323

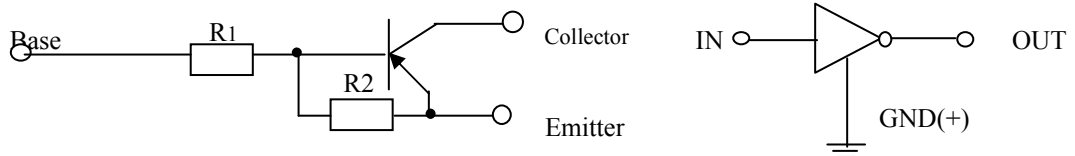
PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CBO}	-50	V
Collector-emitter voltage	V_{CEO}	-50	V
Emitter-base voltage	V_{EBO}	-6	V
Collector current	I_C	-100	mA
Collector Power Dissipation	P_C	100	mW
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C



1.Base 2.Emitter 3.Collector

■■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h_{FE}	80				$V_{CE} = -5V, I_C = -10mA$
Collector Cut-off Current	I_{CBO}			-0.1	μA	$V_{CB} = -50V, I_E = 0$
Emitter Cut-off Current	I_{EBO}	-0.081		-0.15	mA	$V_{EB} = -6V, I_C = 0$
Input Voltage (ON)	$V_{I(ON)}$	-0.7		-1.8	V	$V_{CE} = -0.2V, I_C = -5mA$
Output Voltage (OFF)	$V_{I(OFF)}$	-0.5		-1	V	$V_{CE} = -5V, I_C = -0.1mA$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		0.1	0.3	V	$I_C = -5mA, I_B = -0.25mA$
Gain bandwidth product	f_T	100	200		MHz	$I_C = -5mA, V_{CE} = -10V$
Base Resistance	R_1	7	10	13	K Ω	
Emitter Resistance	R_2	3.29	4.7	6.11		
Common Base Output Capacitance	C_{ob}		3	6	pF	$V_{CB} = -10V, I_E = 0, f = 1MHz$



■■ h_{FE} Classification And Marking

Print Mark YH

Classification

$h_{FE} \geq 80$