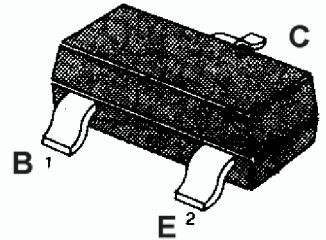


APPLICATION: Interface Circuit and Driver Circuit Applications.

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

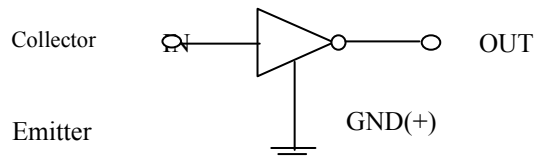
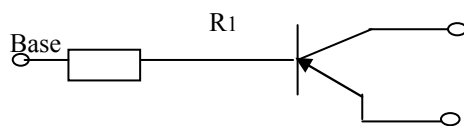
PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CB0}	-50	V
Collector-emitter voltage	V_{CEO}	-50	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_C	-100	mA
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$

SOT-23


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}	120		400		$V_{CE} = -5V, I_C = -1mA$
Collector Cut-off Current	I_{CB0}			-0.1	μA	$V_{CB} = -50V, I_E = 0$
Emitter Cut-off Current	I_{EBO}			-0.1	mA	$V_{EB} = -5V, I_C = 0$
Collector-Base Breakdown Voltage	BV_{CB0}	-50			V	$I_C = -0.1mA, I_E = 0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-50			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	$V_{CE(sat)}$		-0.1	-0.3	V	$I_C = -5mA, I_B = -0.25mA$
Gain bandwidth product	f_T	100	200		MHz	$I_C = -5mA, V_{CE} = -10V$
Common Base Output Capacitance	R_1	3.29	4.7	6.11	$\text{K}\Omega$	
Common Base Output Capacitance	C_{ob}		3	6	pF	$V_{CB} = -10V, I_E = 0, f = 1\text{MHz}$


 h_{FE} Classification And Marking

Print Mark

YK

Classification

 h_{FE}

120~400