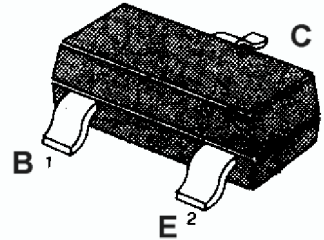


APPLICATION: GENERAL PURPOSE AMPLIFY APPLICATIONS,
WITCHING APPLICATION, DRIVER APPLICATION.

MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	-55	V
Collector-emitter voltage	V _{CEO}	-50	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _c	-150	mA
Collector Power Dissipation	P _c	200	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	- 55~150	°C

SOT-23



1.Base 2 .Emitter 3 .Collector

ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	82		820		V _{CE} = -6V, I _c = -1mA
Collector Cut-off Current	I _{CBO}			-0.1	μA	V _{CB} = -50V, I _E =0
Emitter Cut-off Current	I _{EBO}			-0.1	μA	V _{EB} = -5V, I _c =0
Collector-Base Breakdown Voltage	BV _{CB0}	-55			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)}			-0.3	V	I _c = -100mA, I _B = -10mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			-1	V	I _c = -100mA, I _B = -10mA
Gain bandwidth product	f _T	140			MHz	I _c = -2mA, V _{CE} = -10V
Common Base Output Capacitance	C _{ob}			3.5	PF	V _{CB} = -10V, I _E =0, f= 1MHz

h_{FE} Classification And Marking

Print Mark	FR				
Classification	P	Q	R	S	E
h _{FE}	82~180	120~270	180~390	270~560	390~820