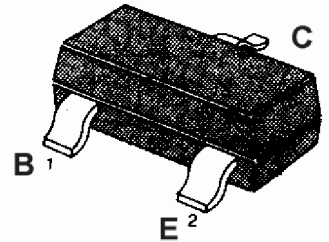


APPLICATION: General Purpose Applications.

MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	60	V
Collector-emitter voltage	V _{CE0}	50	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	100	mA
Collector Power Dissipation	P _C	250	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}	70		700		V _{CE} = 6V, I _C = 2mA
Collector Cut-off Current	I _{CB0}			0.1	μA	V _{CB} = 55V, I _E =0
Emitter Cut-off Current	I _{EBO}			0.1	μA	V _{EB} = 5V, I _C =0
Collector-Base Breakdown Voltage	BV _{CB0}	60			V	I _C = 0.1mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CE0}	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	0.25	V	I _C = 100mA, I _B = 10mA
Gain bandwidth product	f _T	80			MHz	I _C = 1mA, V _{CE} = 10V
Common Base Output Capacitance	C _{ob}		2	3.5	PF	V _{CB} = 10V, I _E =0, f = 1MHz
Noise Figure	N _F		1	10	dB	V _{CE} = 6V, I _C = 0.1mA, f= 1KHz, R _g = 10KΩ

h_{FE} Classification And Marking

Print Mark	BQ	BR	BS
Classification	Q	R	S
h _{FE}	120~240	200~400	350~700