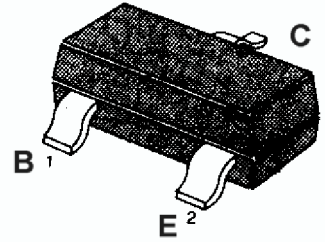


APPLICATION: High Voltage Control Applications

MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	300	V
Collector-emitter voltage	V _{CEO}	300	V
Emitter-base voltage	V _{EBO}	6	V
Collector current	I _C	100	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 _{FE1}	30		150		V _{CE} = 10V, I _C =20 mA
	h _{FE2}	20				V _{CE} =10 V, I _C = 1mA
Collector Cut-off Current	I _{CB0}			0.1	μA	V _{CB} = 300V, I _E =0
Emitter Cut-off Current	I _{EBO}			0.1	μA	V _{EB} = 6V, I _C =0
Collector-Base Breakdown Voltage	BV _{CB0}	300			V	I _C = 0.1mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	300			V	I _C = 1mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	6			V	I _E =0.1 mA, I _C =0
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.5	V	I _C = 20mA, I _B =2 mA
Base-Emitter Saturation Voltage	V _{BE(sat)}			1.2	V	I _C =20 mA, I _B =2 mA
Gain bandwidth product	f _T	50	80		MHz	I _C = 20mA, V _{CE} = 10V
Common Base Output Capacitance	C _{ob}		3	4	PF	V _{CB} = 20V, I _E =0, f=1 MHz

h_{FE} Classification And Marking

Print Mark	3R	3O
Classification	R	O
h _{FE1}	30~90	50~150