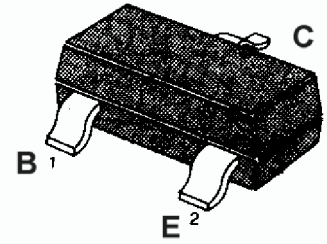


APPLICATION:GENERAL PURPOSE AMPLIFIER APPLICATION,
SWITCHING APPLICATION.

MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CB0}	-40	V
Collector-emitter voltage	V _{CEO}	-25	V
Emitter-base voltage	V _{EBO}	-6	V
Collector current	I _c	-1500	mA
Collector Power Dissipation	P _c	350	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55~150	°C

SOT-23



1.Base 2 .Emitter 3 .Collecto

ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h _{FE}	85		300		V _{CE} = -1 V, I _c = -100 mA
Collector Cut-off Current	I _{CB0}			-0.1	μA	V _{CB} = -35 V, I _E =0
Emitter Cut-off Current	I _{EBO}			-0.1	μA	V _{EB} = -6 V, I _c =0
Collector-Base Breakdown Voltage	BV _{CB0}	-40			V	I _c = -0.1 mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	-25			V	I _c = -2 mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	-6			V	I _B = -0.1 mA, I _c =0
Emitter-Base Voltage	V _{BE}			-1	V	V _{CE} = -1 V, I _c = -10 mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}		-0.28	-0.5	V	I _c = -800 mA, I _B = -80 mA
Base-Emitter Saturation Voltage	V _{BE(sat)}		-0.96	-1.2	V	I _c = -800 mA, I _B = -80 mA
Gain bandwidth product	f _T	100			MHz	I _c = -50 mA, V _{CE} = -10 V
Common Base Output Capacitance	C _{ob}		15	30	PF	V _{CB} = -10 V, I _E =0, f = 1 MHz

h_{FE} **Classification And Marking**

Print Mark	55B	55C	55D
Classification	B	C	D
h _{FE}	85~160	120~200	160~300