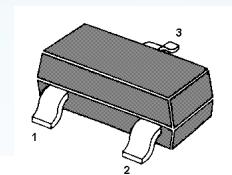
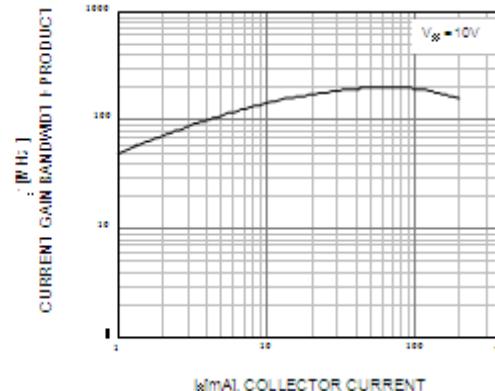
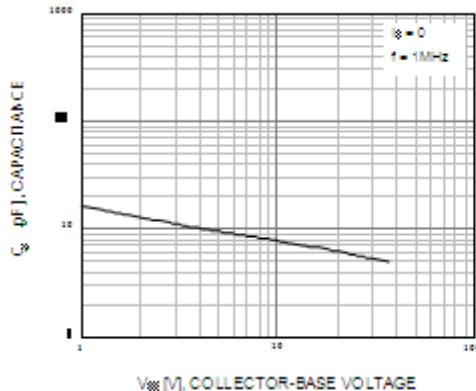
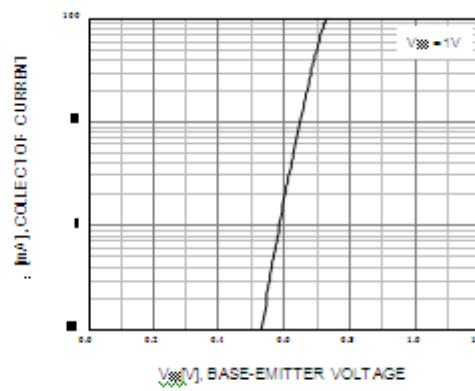
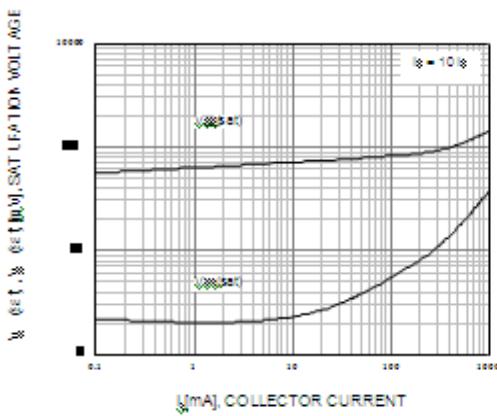
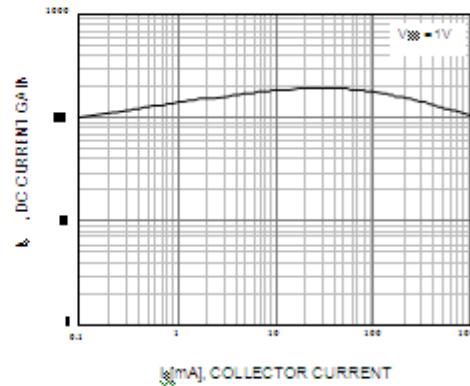
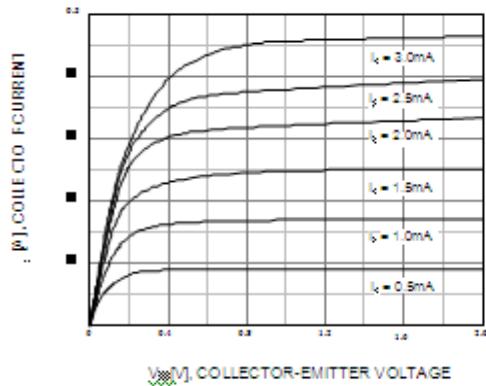


TRANSISTOR (NPN)
 1. BASE
 2. Emitter
 3. Collector
SOT-23**MAXIMUM RATINGS (T_A=25°C unless otherwise noted)**

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current -Continuous	1.8	A
P _C	Collector Power Dissipation	0.3	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

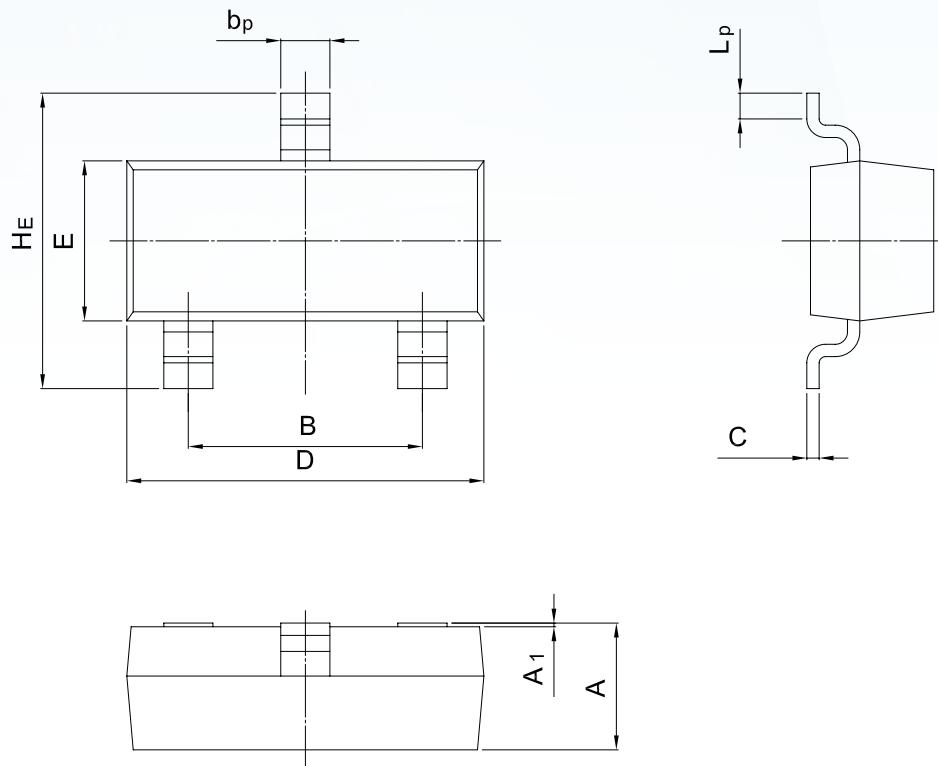
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100µA, I _E =0	40			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 0.1mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100µA, I _C =0	5			V
Collector cut-off current	I _{CBO}	V _{CB} =40V, I _E =0			0.1	µA
Collector cut-off current	I _{CEO}	V _{CB} =20V, I _E =0			0.1	µA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _C =0			0.1	µA
DC current gain	h _{FE(1)}	V _{CE} =1V, I _C = 100mA	200		350	
	h _{FE(2)}	V _{CE} =1V, I _C = 800mA	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =800mA, I _B = 80mA			0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =800mA, I _B = 80mA			1.2	V
Transition frequency	f _T	V _{CE} =10V, I _C = 50mA f=30MHz	100			MHz



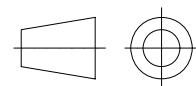
PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b _p	C	D	E	H _E	A ₁	L _p
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20



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