

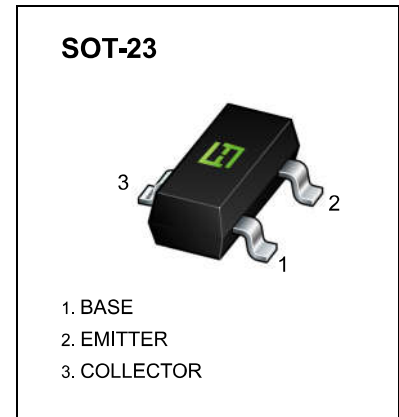
FEATURES

- Driver Transistors

MARKING:2H

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-4	V
I _C	Collector Current	-500	mA
P _C	Collector Power Dissipation	225	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	556	°C/W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

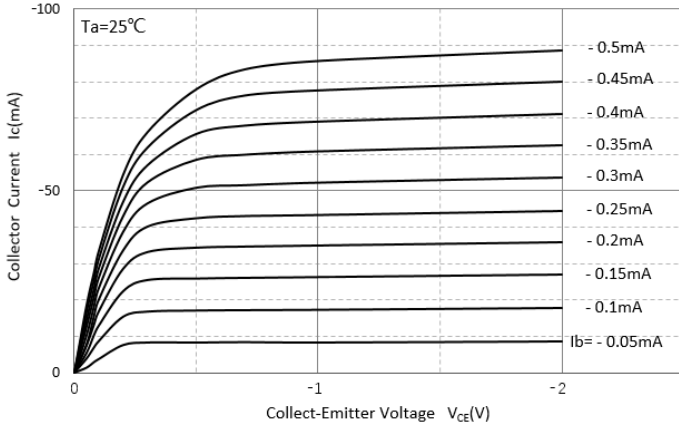


ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

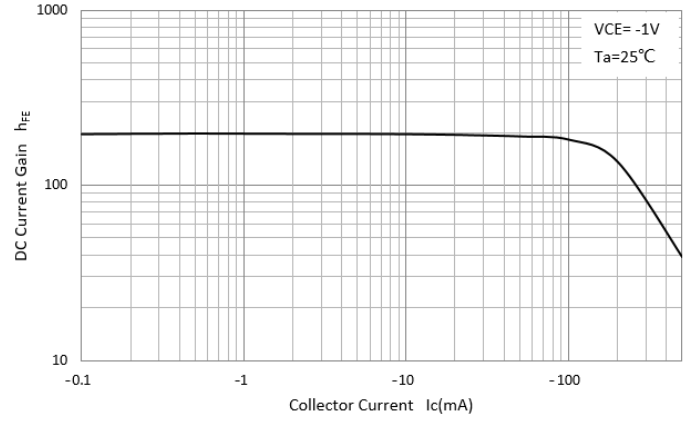
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA, I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA, I _B =0	-60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA, I _C =0	-4			V
Collector cut-off current	I _{CBO}	V _{CB} =-60V, I _E =0			-0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} =-60V, I _B =0			-0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =-1V, I _C =-10mA	100		400	
	h _{FE(2)}	V _{CE} =-1V, I _C =-100mA	100			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B =-10mA			-0.25	V
Base-emitter voltage	V _{BE}	V _{CE} =-1V, I _C =-100mA			-1.2	V
Transition frequency	f _T	V _{CE} =-1V, I _C =-100mA, f=100MHz	50			MHz

Characteristics (Typical)

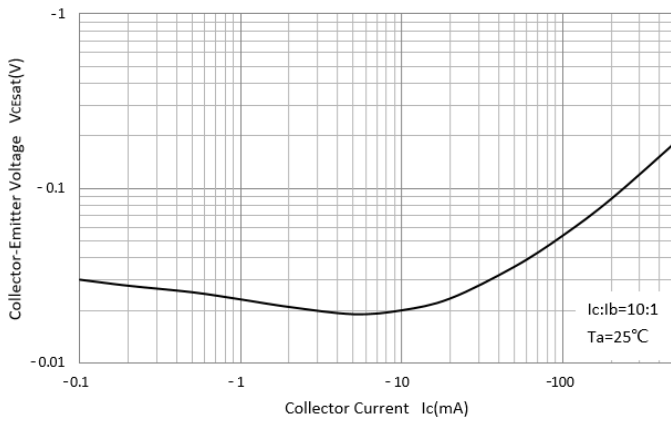
Static Characteristic



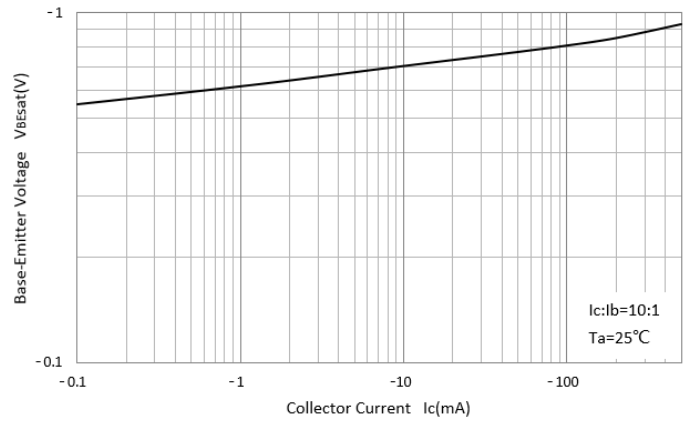
DC Current Gain



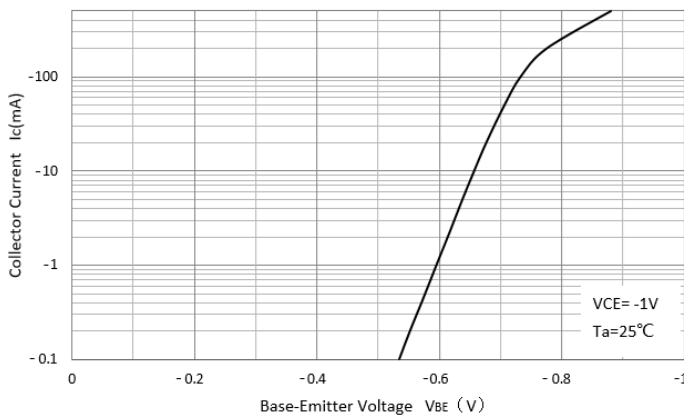
Collector-Emitter Saturation Voltage



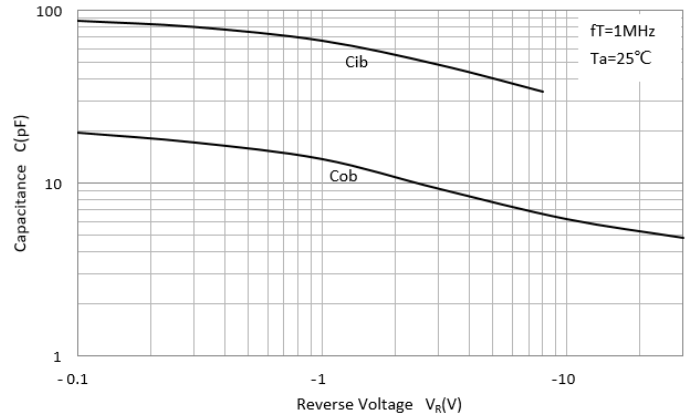
Base-Emitter Saturation Voltage



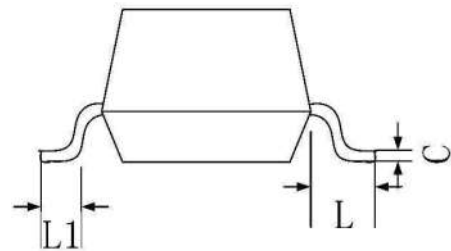
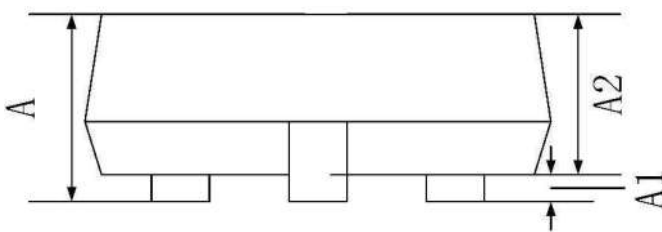
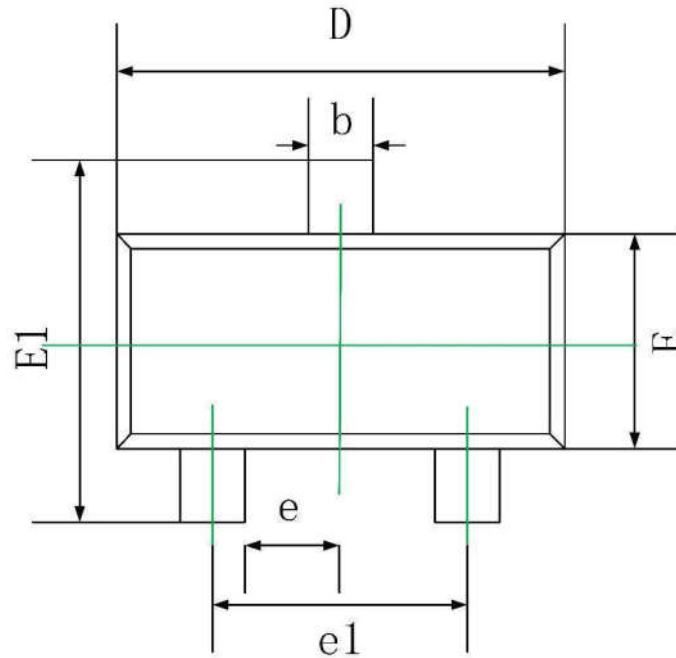
Base-Emitter On Voltage



$C_{ob}/C_{ib}-V_{CB}/V_{EB}$



SOT-23 Package Information



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020