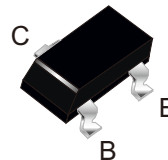


FEATURES

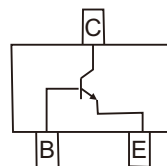
- Epoxy meets UL-94 V-0 flammability rating
- Complementary to SS8550
- Power Dissipation of 300mW
- High Stability and High Reliability

SOT-23



MECHANICAL DATA

- Case: SOT-23(TO-236)
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Marking: Y1



MAXIMUM RATINGS($T_A=25^{\circ}\text{C}$ Unless otherwise specified)

Parameter	Symbol	Unit	Value
Collector-Emitter Voltage	V_{CE0}	V	25
Collector-Base Voltage	V_{CB0}	V	40
Emitter-Base Voltage	V_{EB0}	V	5
Collector Current, Continuous	I_C	mA	1500
Collector Power Dissipation	P_D	mW	300
Operation Junction Temperature	T_J	$^{\circ}\text{C}$	-55 to +150
Storage Temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +150
Thermal resistance From junction to ambient	$R_{\theta JA}$	$^{\circ}\text{C}/\text{W}$	417

SS8050

ELECTRICAL CHARACTERISTICS(T_A=25°C Unless otherwise specified)

Parameter	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	V	I _C =0.1mA, I _B =0	25	---
Collector-Base Breakdown Voltage	V _{(BR)CBO}	V	I _C =100μA, I _E =0	40	---
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	V	I _E =100μA, I _C =0	5	---
Collector cut-off Current	I _{CBO}	nA	V _{CB} =40V, I _E =0	---	100
Collector cut-off Current	I _{CEO}	nA	V _{CE} =20V, I _B =0	---	100
Emitter cut-off Current	I _{EBO}	nA	V _{EB} =5V, I _C =0	---	100
DC Current Gain	h _{FE}		I _C =1mA, V _{CE} =1.0V	---	---
	h _{FE(1)}		I _C =100mA, V _{CE} =1.0V	120	400
	h _{FE(2)}		I _C =800mA, V _{CE} =1.0V	40	---
Collector-Emitter Saturation Voltage	V _{CE(sat)}	V	I _C =10mA, I _B =1.0mA	---	---
			I _C =800mA, I _B =80mA	---	0.5
Base-Emitter Saturation Voltage	V _{BE(sat)}	V	I _C =10mA, I _B =1.0mA	---	---
			I _C =800mA, I _B =80mA	---	1.2
Output Capacitance	C _{ob}	pF	V _{CB} =6V, f=1.0MHz, I _E =0	---	---
Input Capacitance	C _{ib}	pF	V _{EB} =0.5V, f=1.0MHz, I _C =0	---	---
Current Gain-Bandwidth Product	f _T	MHz	I _C =50mA, V _{CE} =10V f=30MHz	100	---
Noise Figure	NF	dB	V _{CE} =5.0V, f=1.0kHz, I _C =100μA, R _S =1.0K	---	---

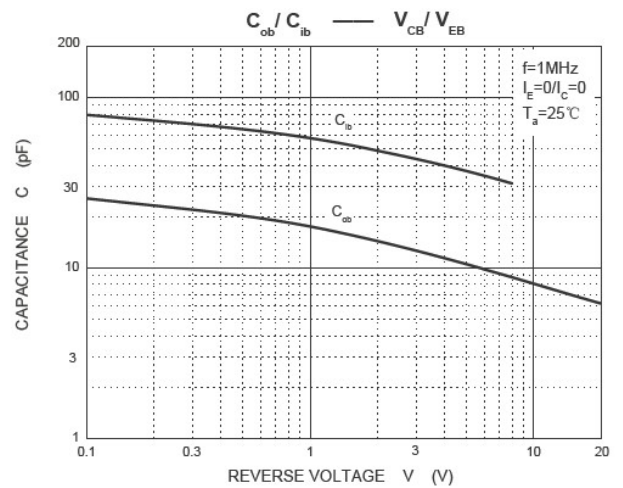
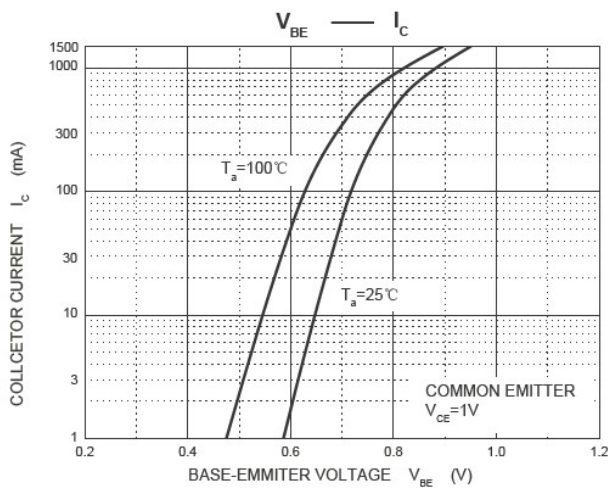
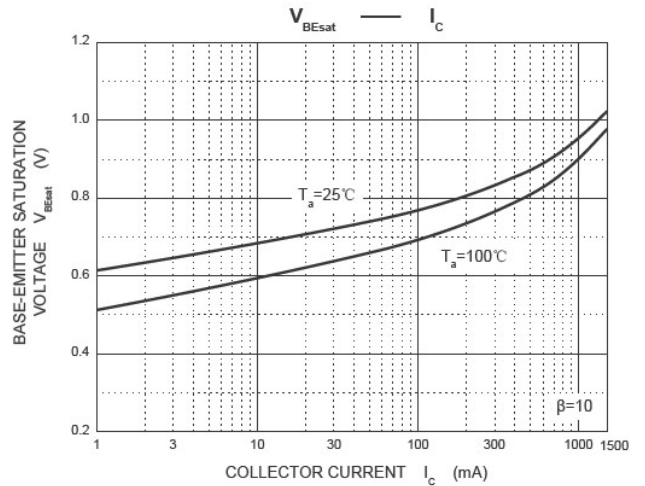
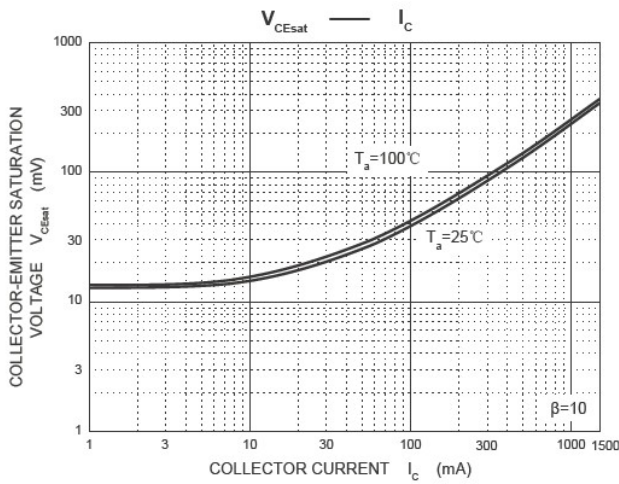
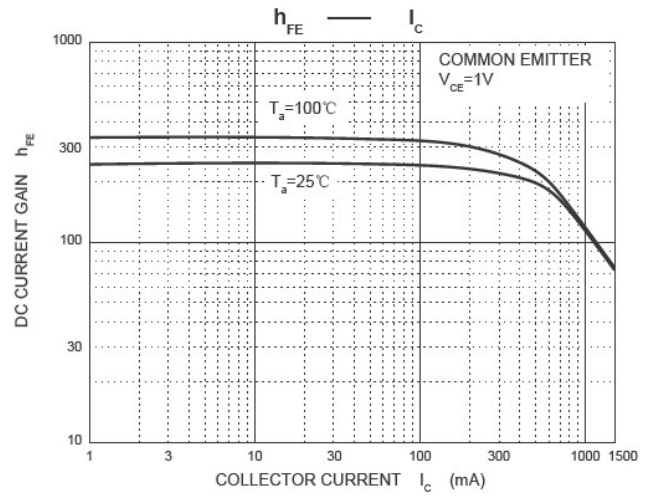
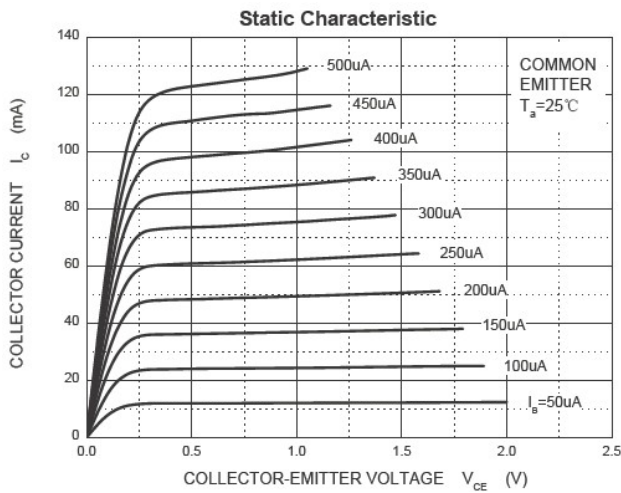
CLASSIFICATION OF h_{FE(1)}

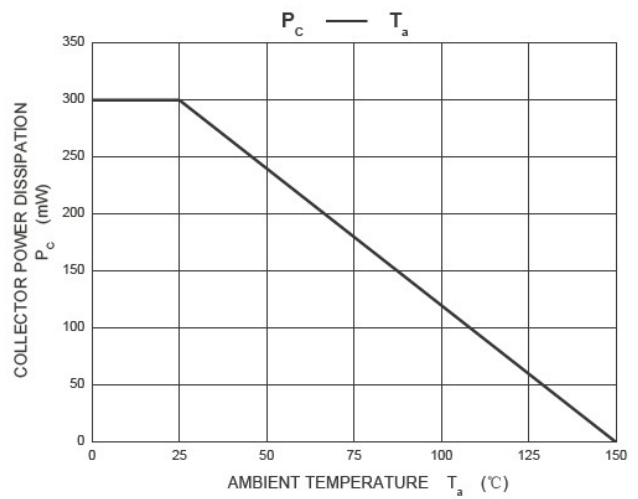
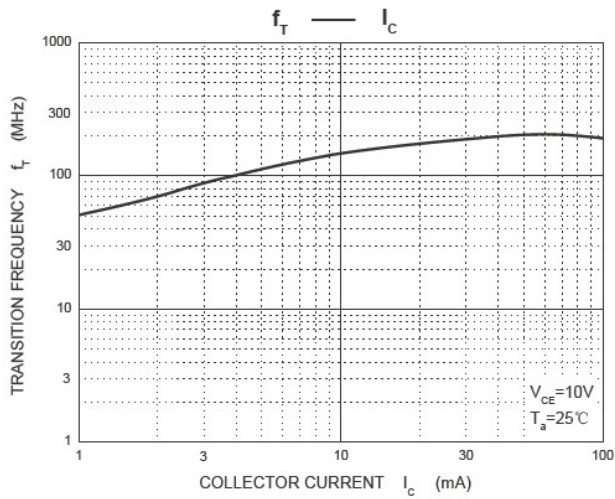
Rank	L	H	J
Range	120-200	200-350	300-400

AVAILABLE PACK INFORMATION

Product code	Pack	Reel Size (mm)	Quantity (Pcs/reel)	Quantity (pcs/box)	Quantity (pcs/carton)
SS8050	T/R	Φ180	3K	30K	120K

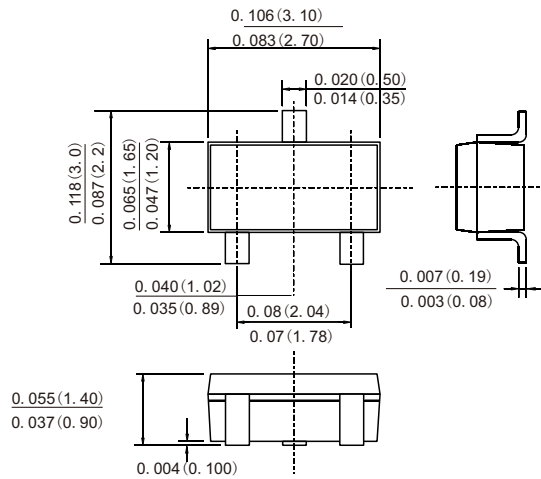
Characteristics(Typical)



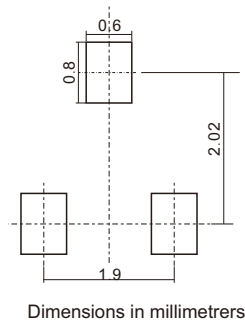


Outline Dimensions

SOT-23



Suggested pad layout



Friendship Reminder

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