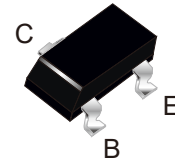


FEATURES

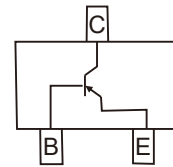
- Epoxy meets UL-94 V-0 flammability rating
- Complementary to M8050
- Power Dissipation of 200mW
- High Stability and High Reliability

SOT-23



MECHANICAL DATA

- Case: SOT-23(TO-236)
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Marking: Y21



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

Parameter	Symbol	Unit	Value
Collector-Emitter Voltage	V_{CEO}	V	-25
Collector-Base Voltage	V_{CBO}	V	-40
Emitter-Base Voltage	V_{EBO}	V	-6.0
Collector Current, Continuous	I_C	mA	-800
Power Dissipation	P_D	mW	200
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	$R_{\theta JA}$	$^{\circ}\text{C}/\text{W}$	625

M8550

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 =-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	-6	---
Collector cut-off Current	I _{CBO}	nA	V _{CB} =-35V, I _E =0	---	-100
Collector cut-off Current	I _{CEO}	nA	V _{CE} =-20V, I _B =0	---	-100
DC Current Gain	h _{FE(1)}		I _C =-5mA, V _{CE} =-1.0V	45	---
	h _{FE(2)}		I _C =-100mA, V _{CE} =-1.0V	85	400
	h _{FE(3)}		I _C =-800mA, V _{CE} =-1.0V	40	---
Collector-Emitter Saturation Voltage	V _{CE(sat)}	V	I _C =-800mA, I _B =-80mA	---	-0.5
Base-Emitter Saturation Voltage	V _{BE(sat)}	V	I _C =-800mA, I _B =-80mA	---	-1.2
Current Gain-Bandwidth Product	f _T	MHz	I _C =-20mA, V _{CE} =-6V f=30MHz	150	---

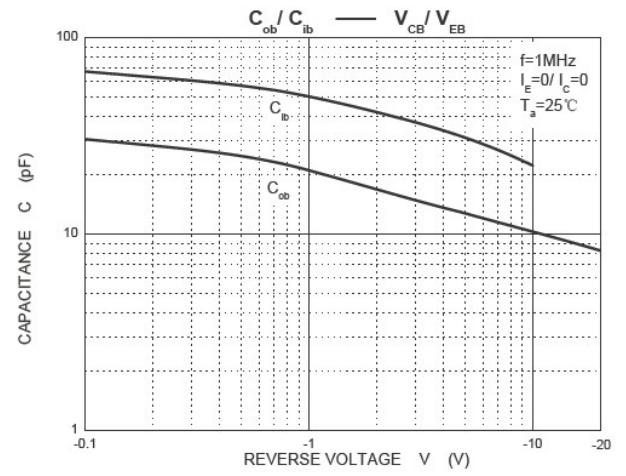
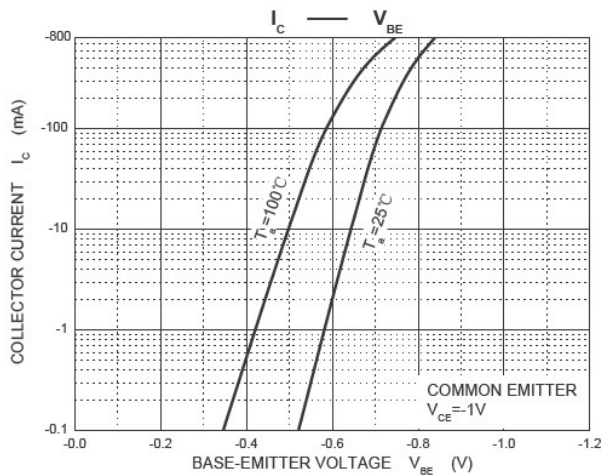
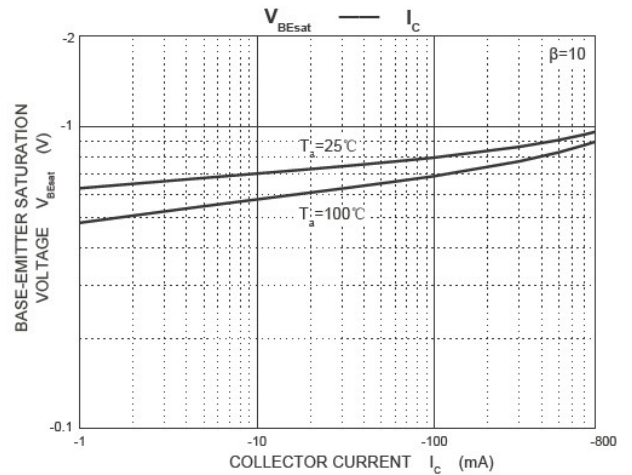
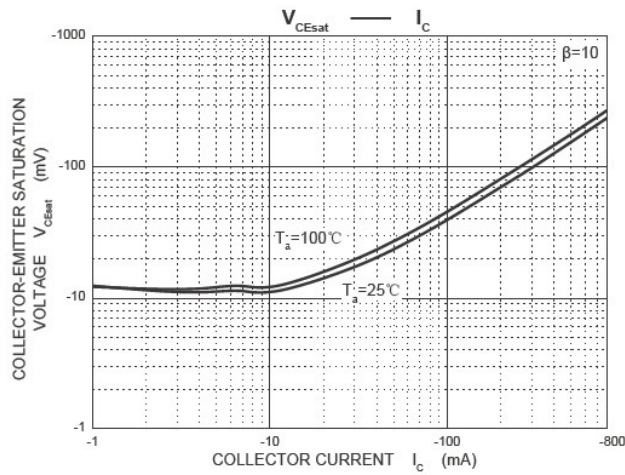
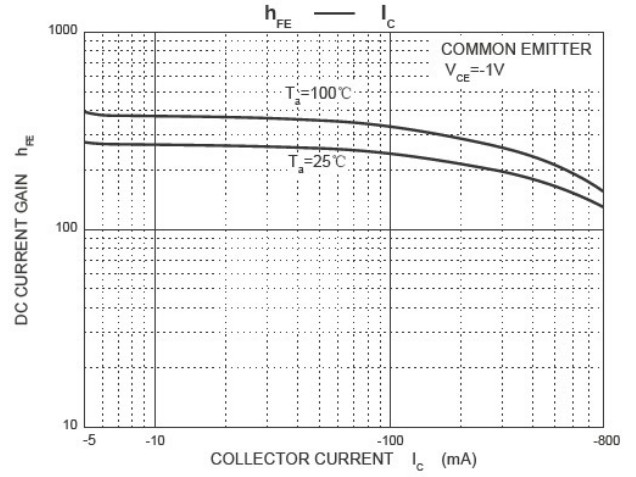
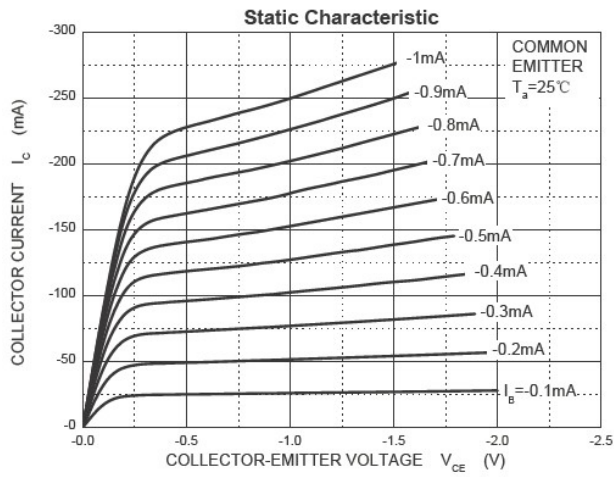
CLASSIFICATION OF h_{FE(2)}

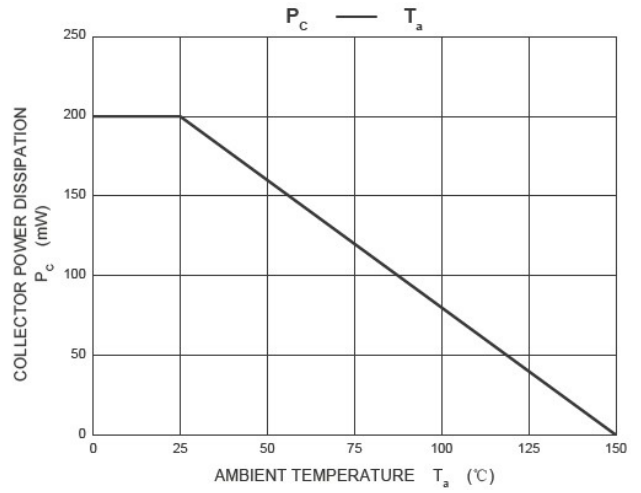
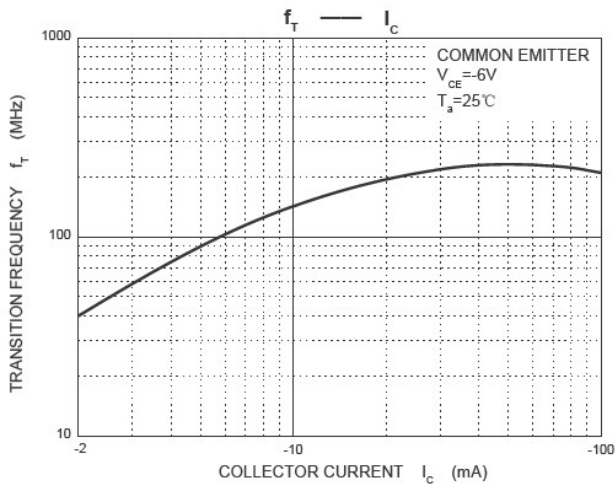
Rank	L	H
Range	85-300	300-400

AVAILABLE PACK INFORMATION

Product code	Pack	Reel Size (mm)	Quantity (Pcs/reel)	Quantity (pcs/box)	Quantity (pcs/carton)
M8550	T/R	Φ180	3K	30K	120K

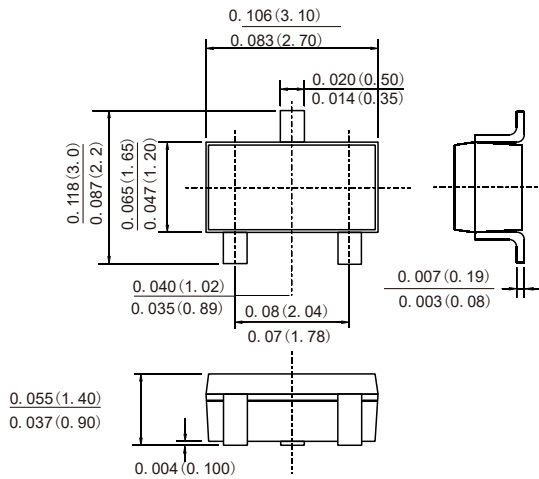
Characteristics(Typical)





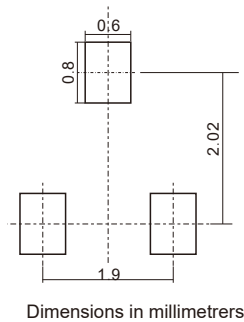
Outline Dimensions

SOT-23



Dimensions in inches and (millimeters)

Suggested pad layout



Dimensions in millimeters

Friendship Reminder

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