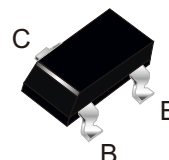


FEATURES

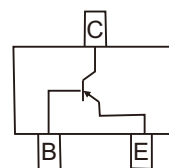
- Epoxy meets UL-94 V-0 flammability rating
- Complementary to S8050
- Power Dissipation of 300mW
- High Stability and High Reliability

SOT-23



MECHANICAL DATA

- Case: SOT-23(TO-236)
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Marking: 2TY



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

Item	Symbol	Unit	Value
Collector-Emitter Voltage	V_{CE0}	V	-25
Collector-Base Voltage	V_{CB0}	V	-40
Emitter-Base Voltage	V_{EB0}	V	-5.0
Collector Current, Continuous	I_C	mA	-500
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

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

Item	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	Vdc	$I_C=-1\text{mA}, I_B=0$	-25	---
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	Vdc	$I_C=-100\mu\text{A}, I_E=0$	-40	---
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	Vdc	$I_E=-100\mu\text{A}, I_C=0$	-5.0	---
Collector cut-off Current	I_{CBO}	nA	$V_{CB}=-40\text{V}, I_E=0$	---	-100
Collector cut-off Current	I_{CEO}	nA	$V_{CE}=-20\text{V}, I_B=0$	---	-100
Emitter cut-off Current	I_{EBO}	nA	$V_{EB}=-3\text{V}, I_C=0$	---	-100
DC Current Gain	h_{FE}		$I_C=5\text{mA}, V_{CE}=-1.0\text{V}$	---	---
	$h_{FE(1)}$		$I_C=-50\text{mA}, V_{CE}=-1\text{V}$	120	400
	$h_{FE(2)}$		$I_C=-500\text{mA}, V_{CE}=-1\text{V}$	50	---
Collector-Emitter Saturation Voltage	$V_{CE(\text{set})}$	Vdc	$I_C=10\text{mA}, I_B=1.0\text{mA}$	---	---
			$I_C=-500\text{mA}, I_B=-50\text{mA}$	---	-0.6
Base-Emitter Saturation Voltage	V_{BE}	Vdc	$I_C=-500\text{mA}, I_B=-50\text{mA}$	---	-1.20
			$V_{CE}=-1\text{V}, I_C=-10\text{mA}$	---	---
Output Capacitance	C_{ob0}	pF	$V_{CB}=-10\text{V}, f=1.0\text{MHz}, I_E=0$	---	---
Input Capacitance	C_{ib0}	pF	$V_{EB}=0.5\text{V}, f=1.0\text{MHz}, I_C=0$	---	---
Current Gain-Bandwidth Product	f_T	MHZ	$I_C=-20\text{mA}, V_{CE}=-6\text{V}$ $f=30\text{MHz}$	150	---
Noise Figure	NF	dB	$V_{CE}=5.0\text{V}, f=1.0\text{kHz}$, $I_C=100\mu\text{A}, R_s=1.0\text{K}$	---	---

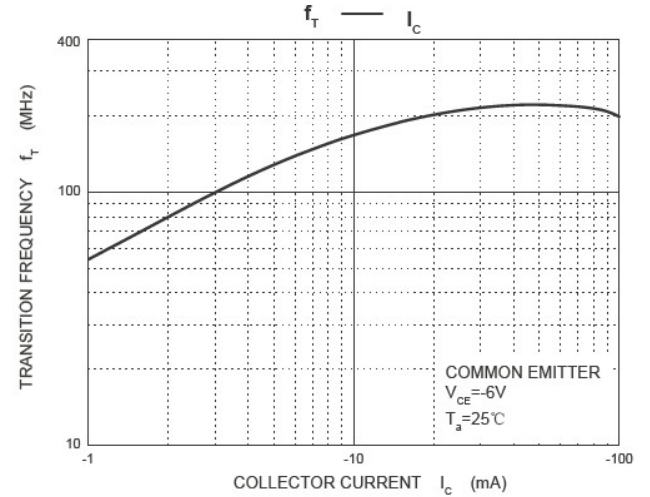
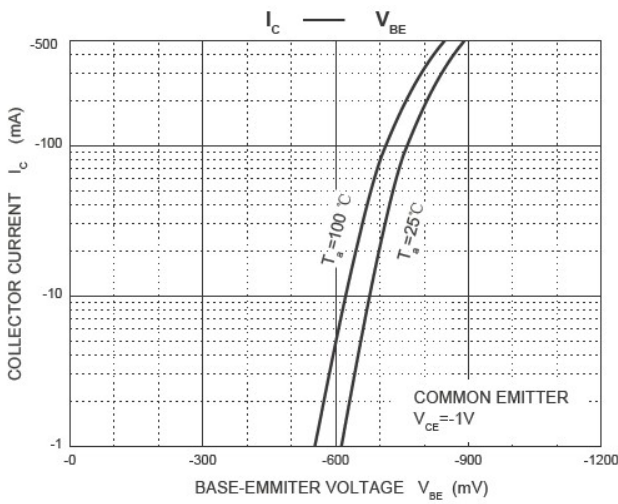
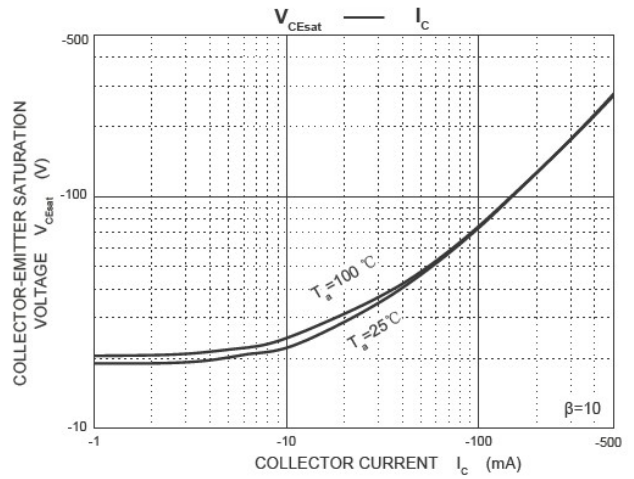
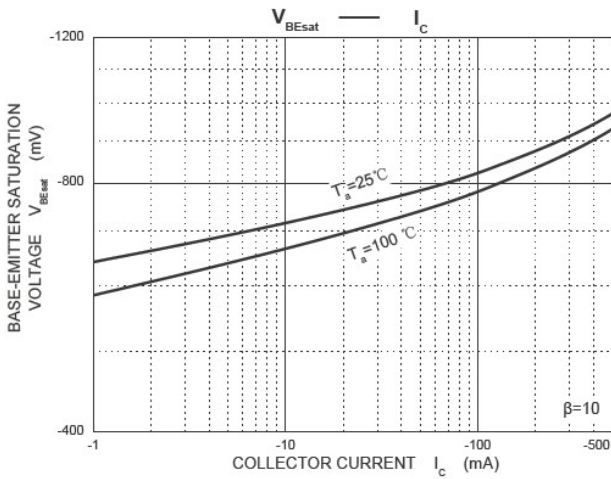
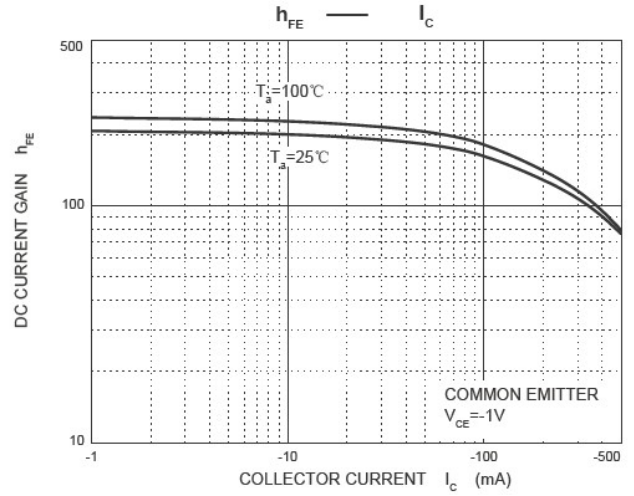
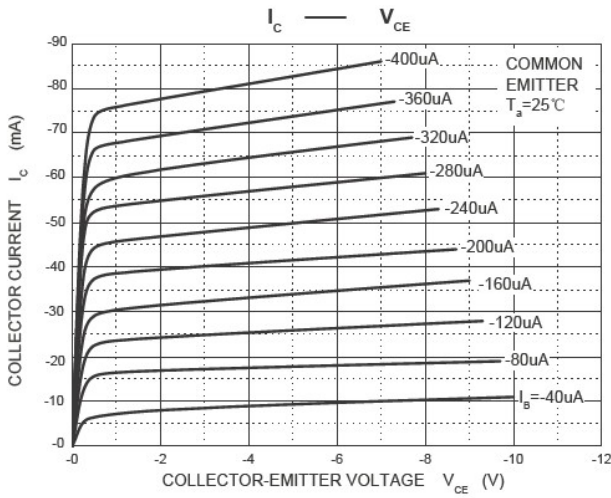
CLASSIFICATION OF $h_{FE(1)}$

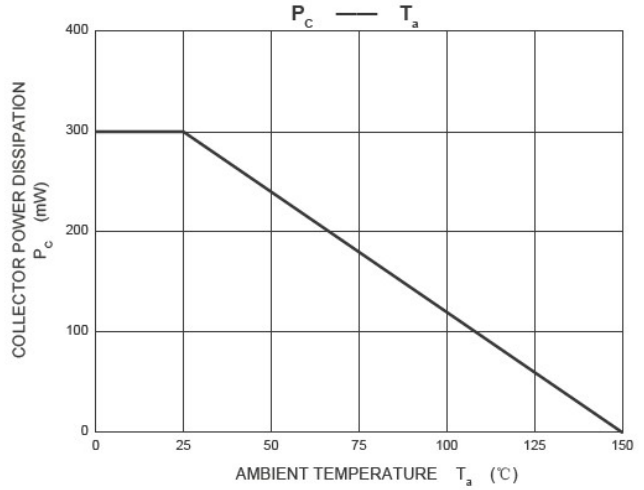
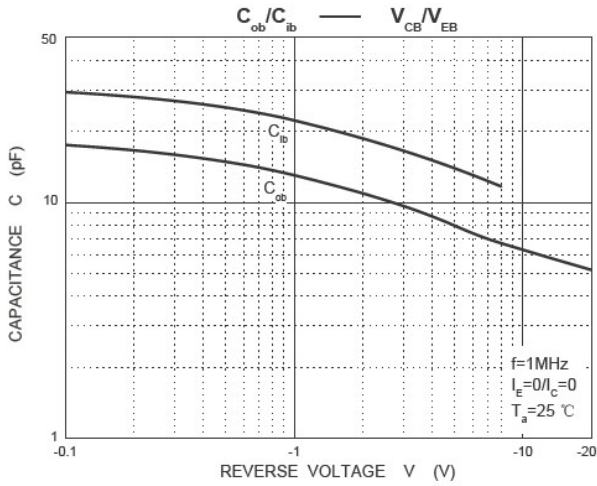
Rank	L	H	J
Range	120-200	200-350	300-400

AVAILABLE PACK INFORMATION

Product code	Pack	Reel Size (mm)	Quantity (Pcs/reel)	Quantity (pcs/box)	Quantity (pcs/carton)
S8550	T/R	$\Phi 180$	3K	30K	120K

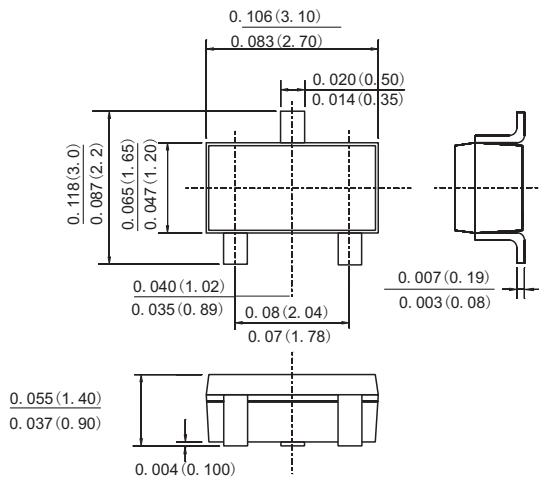
Characteristics(Typical)





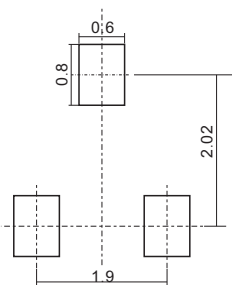
Outline Dimensions

SOT-23



Dimensions in inches and (millimeters)

Suggested pad layout



Dimensions in millimeters

Friendship Reminder

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