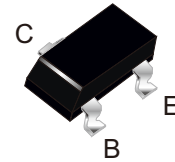


FEATURES

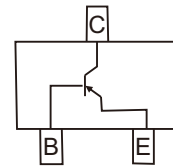
- Epoxy meets UL-94 V-0 flammability rating
- Complementary to C945
- Power dissipation of 200mW
- High stability and high Reliability

SOT-23



MECHANICAL DATA

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



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

Parameter	Symbol	Unit	Value
Collector-Emitter Voltage	V_{CEO}	V	-50
Collector-Base Voltage	V_{CBO}	V	-60
Emitter-Base Voltage	V_{EBO}	V	-5
Collector Current, Continuous	I_C	mA	-150
Collector 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

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

Parameter	Symbol	Unit	Conditions	Min	Max
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	V	$I_C=-1\text{mA}, I_B=0$	-50	---
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	V	$I_C=-5\mu\text{A}, I_E=0$	-60	---
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	V	$I_E=-50\mu\text{A}, I_C=0$	-5	---
Collector cut-off Current	I_{CBO}	nA	$V_{CB}=-60\text{V}, I_E=0$	---	-100
Emitter cut-off Current	I_{EBO}	nA	$V_{EB}=-5\text{V}, I_C=0$	---	-100
DC Current Gain	h_{FE}		$I_C=-1\text{mA}, V_{CE}=-6\text{V}$	120	475
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	$I_C=-100\text{mA}, I_B=-10\text{mA}$	---	-0.30
Base-Emitter Voltage	$V_{BE(on)}$	V	$I_C=-1\text{mA}, V_{CE}=-6\text{V}$	-0.58	-0.68
Output Capacitance	C_{ob}	pF	$V_{CB}=-10\text{V}, f=1.0\text{MHz}, I_E=0$	---	7
Transition frequency	f_T	MHz	$I_C=-10\text{mA}, V_{CE}=-6\text{V}$	50	---
Noise Figure	NF	dB	$V_{CE}=-6.0\text{V}, f=100\text{Hz}, I_C=-0.3\text{mA}, R_G=10\text{K}\Omega$	---	20

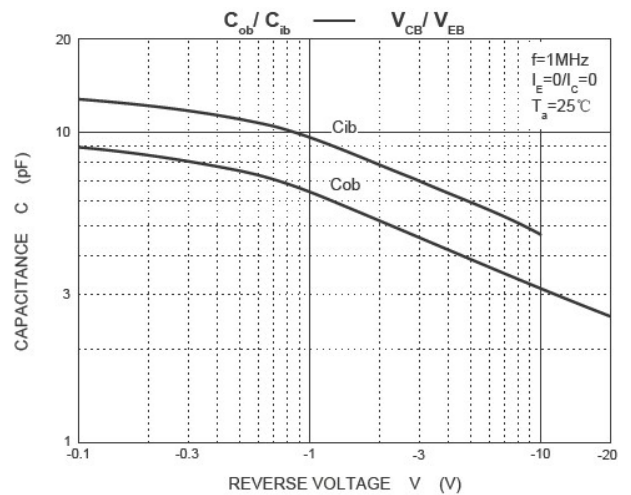
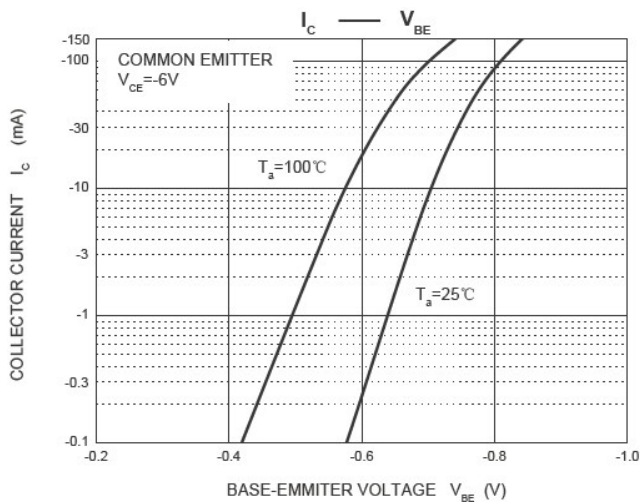
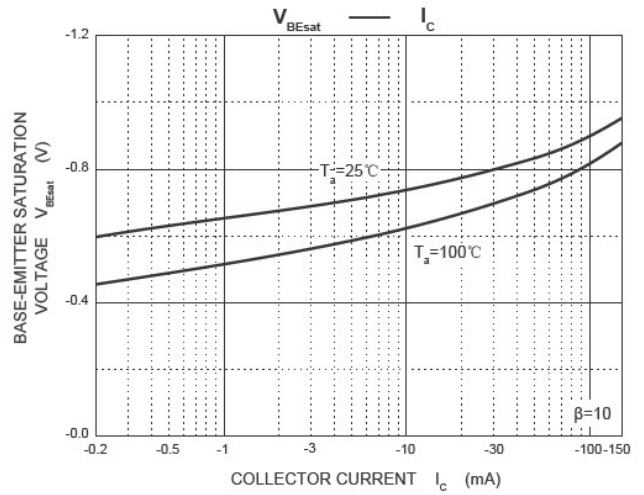
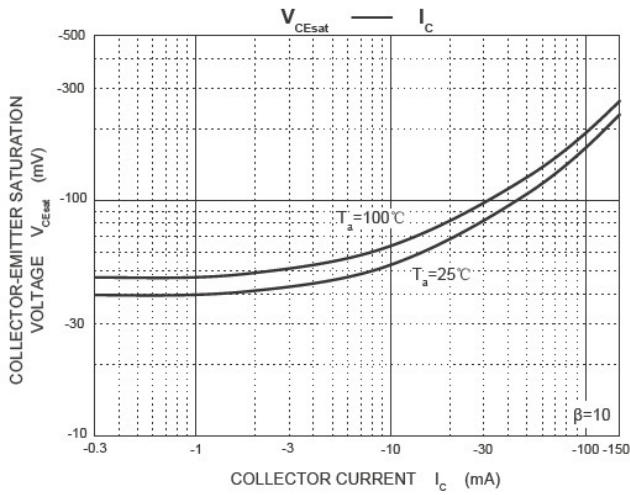
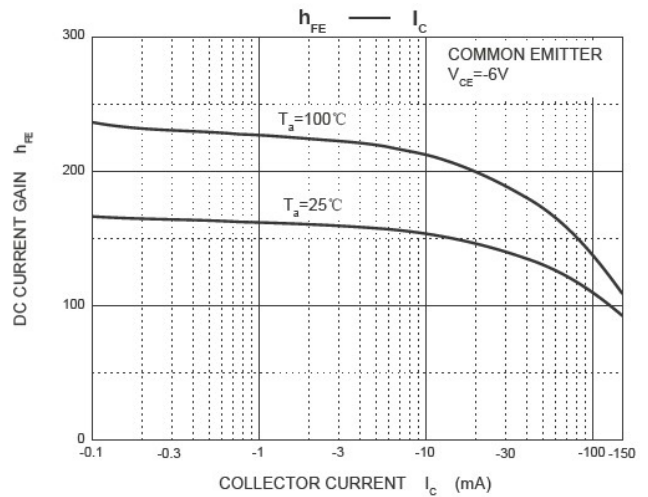
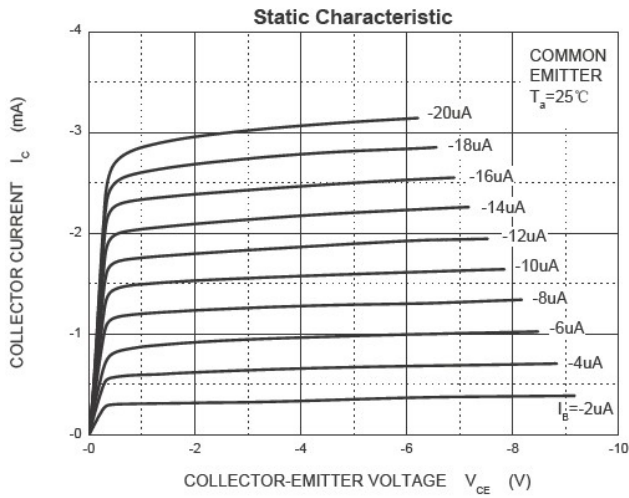
CLASSIFICATION OF h_{FE}

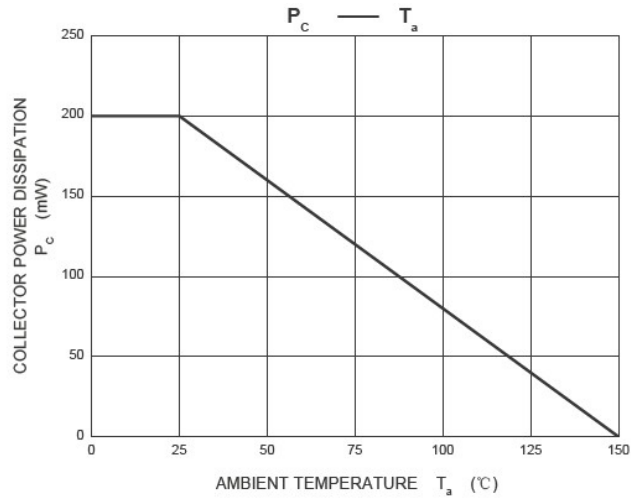
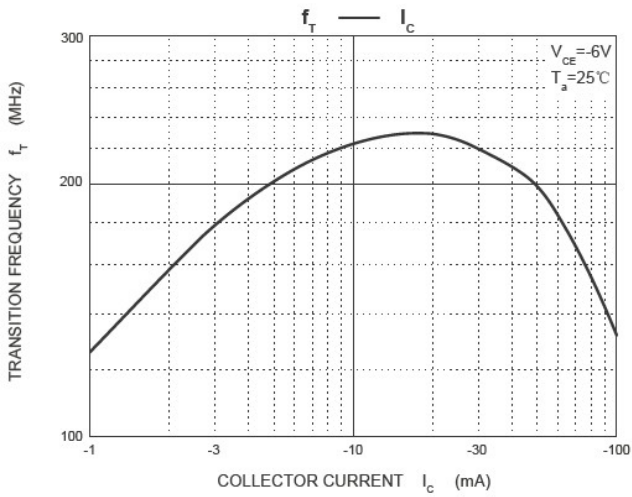
h_{FE}	100-300	
Rank	L	H
Range	120-220	220-475

AVAILABLE PACK INFORMATION

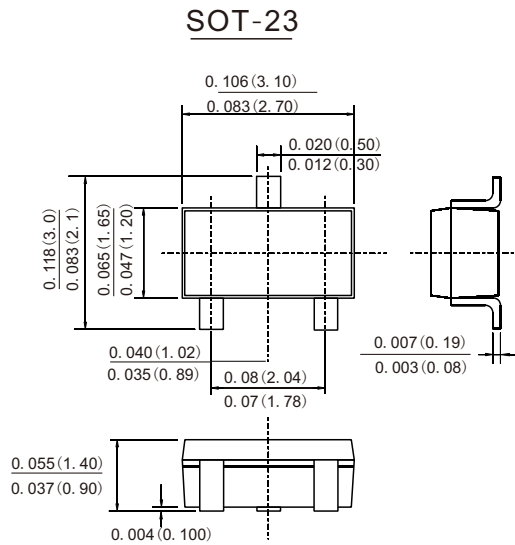
Product code	Pack	Reel Size (mm)	Quantity (Pcs/reel)	Quantity (pcs/box)	Quantity (pcs/carton)
A733	T/R	$\Phi 180$	3K	30K	120K

Characteristics(Typical)



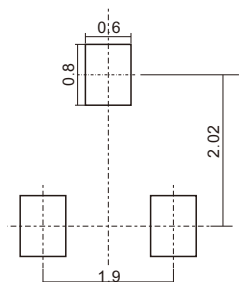


Outline Dimensions



Dimensions in inches and (millimeters)

Suggested pad layout



Dimensions in millimeters

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