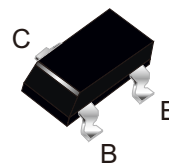


FEATURES

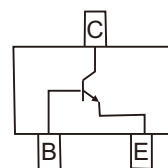
- Epoxy meets UL-94 V-0 flammability rating
- Power Dissipation of 150mW
- Low collector to emitter saturation voltage
- Excellent linearity of DC forward current gain

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	50
Emitter-Base Voltage	V_{EBO}	V	6
Collector Current, Continuous	I_C	mA	200
Collector Power Dissipation	P_D	mW	150
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	$I_C=100\mu\text{A}, I_B=0$	50	---
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	V	$I_C=100\mu\text{A}, I_E=0$	50	---
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	V	$I_E=100\mu\text{A}, I_C=0$	6	---
Collector cut-off Current	I_{CBO}	nA	$V_{CB}=50\text{V}, I_E=0$	---	100
Emitter cut-off Current	I_{EBO}	nA	$V_{EB}=6\text{V}, I_C=0$	---	100
DC Current Gain	$h_{FE(1)}$		$I_C=1\text{mA}, V_{CE}=6\text{V}$	150	800
	$h_{FE(2)}$		$I_C=0.1\text{mA}, V_{CE}=6\text{V}$	50	---
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	$I_C=100\text{mA}, I_B=10\text{mA}$	---	0.3
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	V	$I_C=100\text{mA}, I_B=10\text{mA}$	---	1.0
Output Capacitance	C_{ob}	pF	$V_{CB}=6\text{V}, f=1.0\text{MHz}, I_E=0$	---	4
Transition frequency	f_T	MHz	$I_C=10\text{mA}, V_{CE}=5\text{V}$ $f=30\text{MHz}$	180	---
Noise Figure	NF	dB	$V_{CE}=6.0\text{V}, f=1.0\text{kHz}$, $I_E=100\mu\text{A}, R_G=2\text{K}\Omega$	---	15

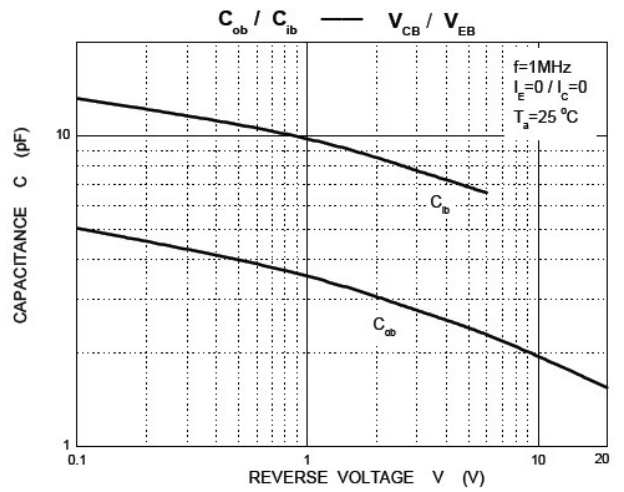
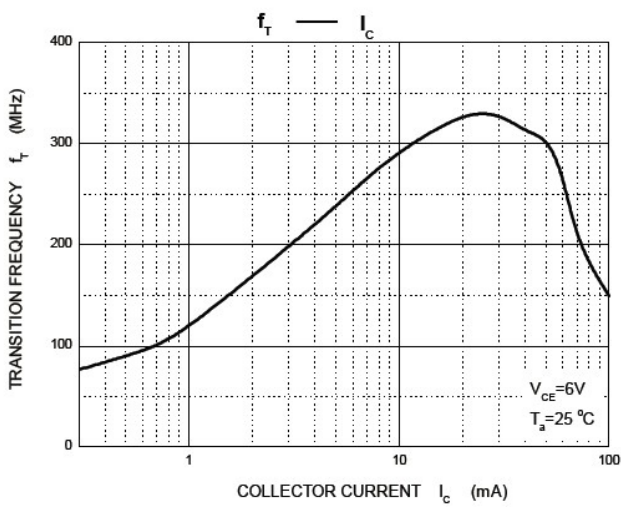
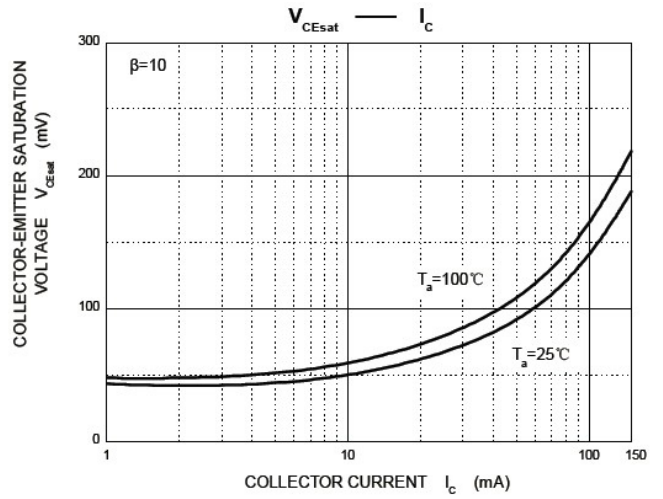
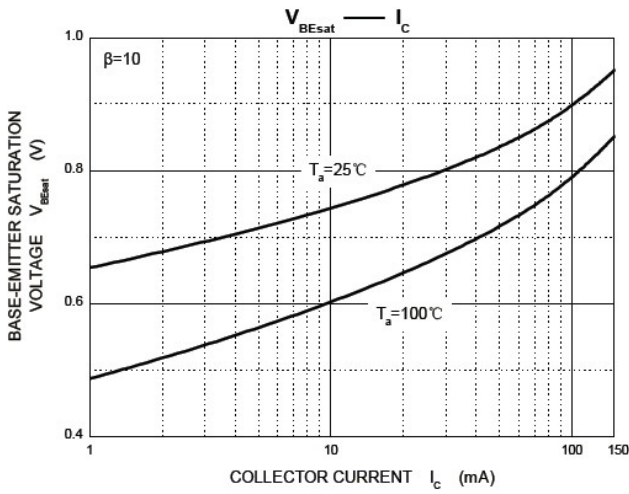
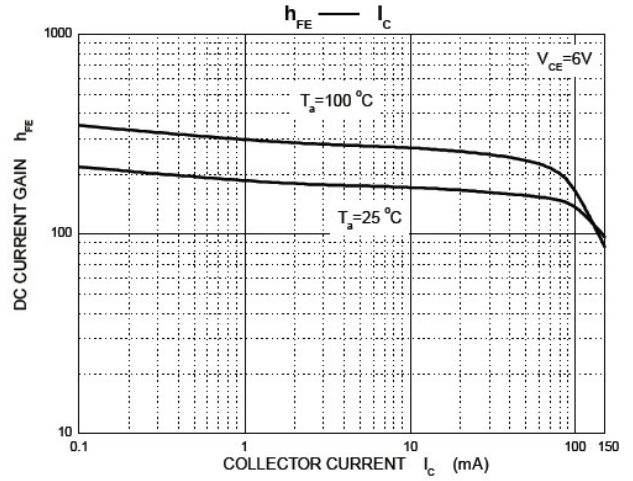
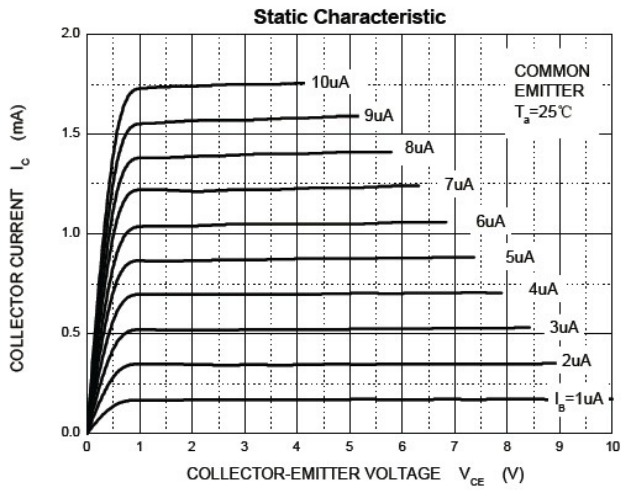
CLASSIFICATION OF $h_{FE(1)}$

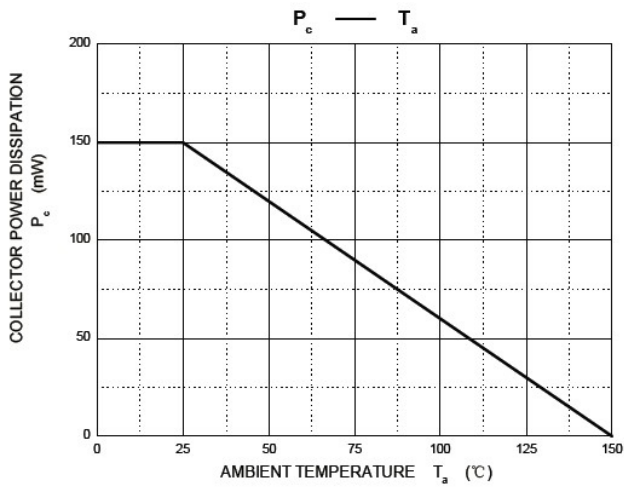
Rank	E	F	G
Range	150-300	250-500	400-800
Marking	LE	LF	LG

AVAILABLE PACK INFORMATION

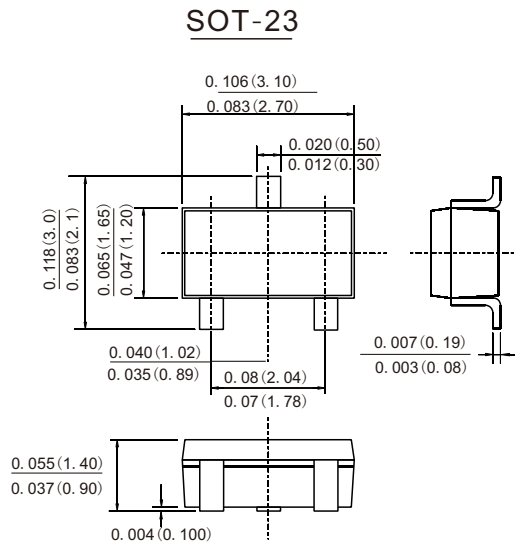
Product code	Pack	Reel Size (mm)	Quantity (Pcs/reel)	Quantity (pcs/box)	Quantity (pcs/carton)
2SC3052	T/R	$\Phi 180$	3K	30K	120K

Characteristics(Typical)



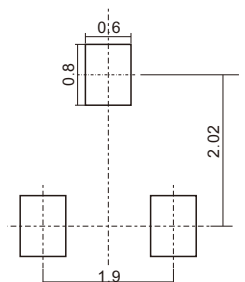


Outline Dimensions



Dimensions in inches and (millimeters)

Suggested pad layout



Dimensions in millimeters

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