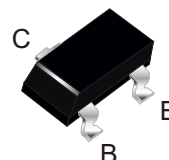


FEATURES

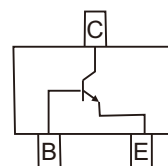
- Epoxy meets UL-94 V-0 flammability rating
- Power Dissipation of 200mW
- High Stability and High Reliability
- Low Cob, Cob=2.0pF(Typ)

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	7
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

2SC2412

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	50	---
Collector-Base Breakdown Voltage	V _{(BR)CBO}	V	I _C =50μA, I _E =0	60	---
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	V	I _E =50μA, I _C =0	7	---
Collector cut-off Current	I _{CBO}	nA	V _{CB} =60V, I _E =0	---	100
Collector cut-off Current	I _{CEO}	nA	V _{CE} =50V, I _B =0	---	---
Emitter cut-off Current	I _{EBO}	nA	V _{EB} =7V, I _C =0	---	100
DC Current Gain	h _{FE}		I _C =1mA, V _{CE} =6V	120	560
			I _C =50mA, V _{CE} =1V	---	---
			I _C =500mA, V _{CE} =1V	---	---
Collector-Emitter Saturation Voltage	V _{CE(sat)}	V	I _C =50mA, I _B =5mA	---	0.4
			I _C =100mA, I _B =5mA	---	---
Base-Emitter Saturation Voltage	V _{BE(sat)}	V	I _C =100mA, I _B =10mA	---	---
			I _C =50mA, I _B =5mA	---	---
Output Capacitance	C _{ob}	pF	V _{CB} =12V, f=1.0MHz, I _E =0	2.0(Typ)	3.5
Current Gain-Bandwidth Product	f _T	MHz	I _C =10mA, V _{CE} =6V f=30MHz	160(Typ)	---
Noise Figure	NF	dB	V _{CE} =5.0V, f=1.0kHz, I _C =100μA, R _S =1.0K	---	---

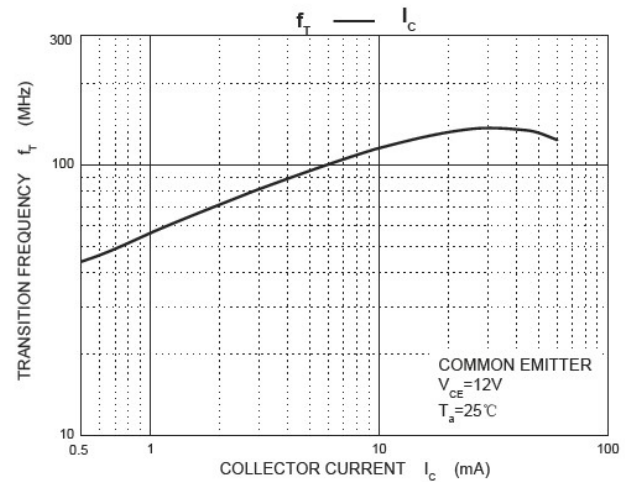
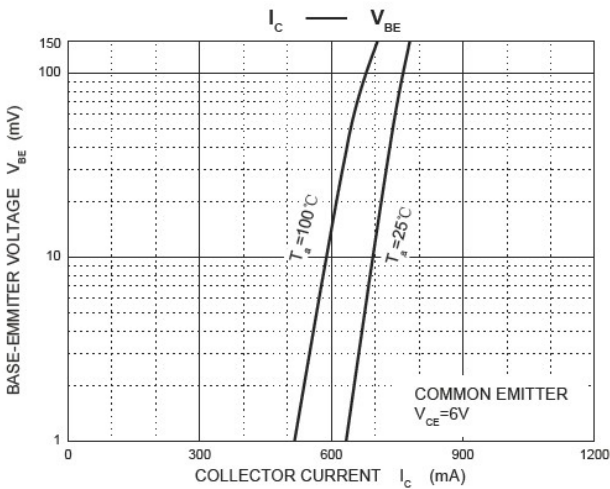
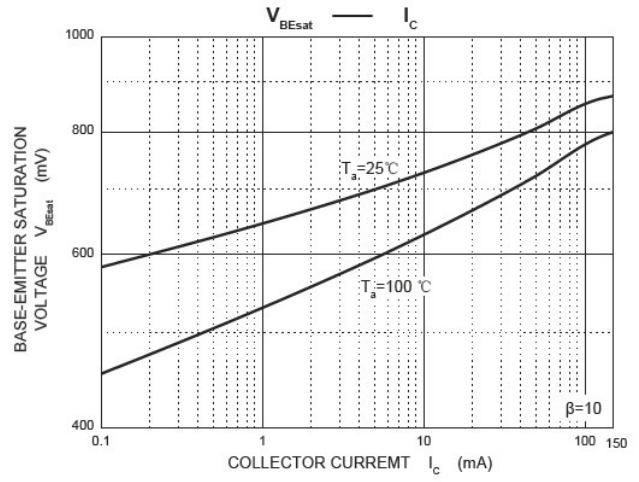
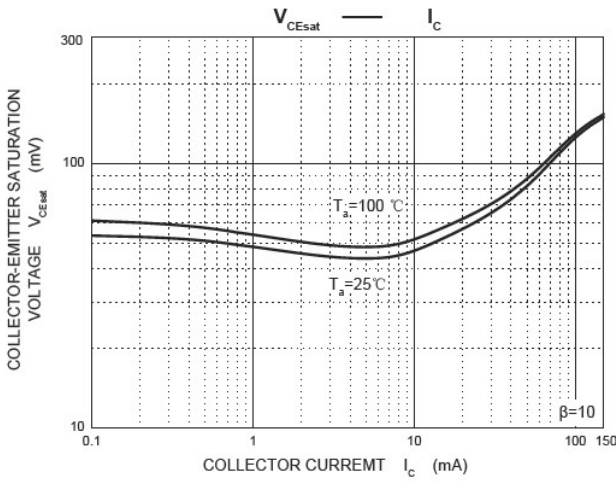
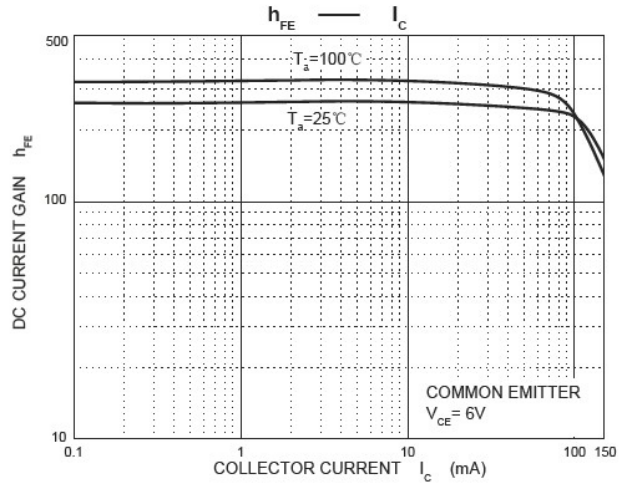
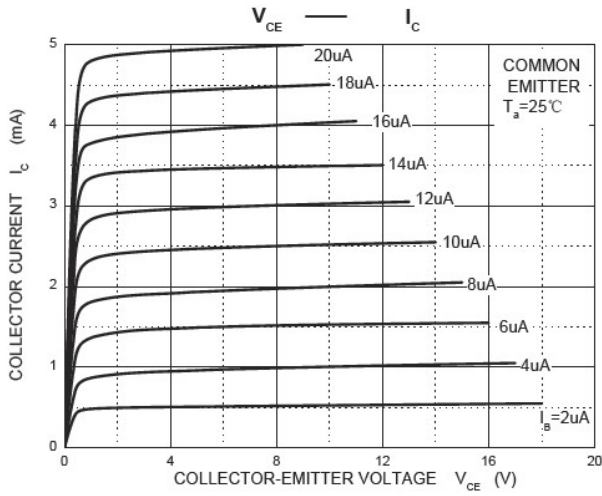
CLASSIFICATION OF h_{FE(1)}

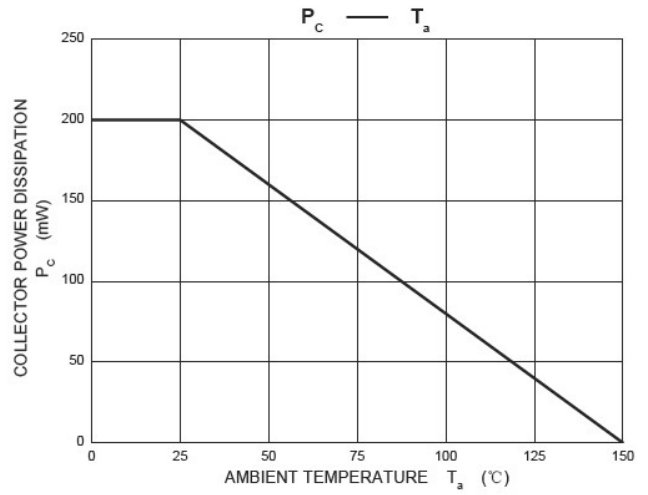
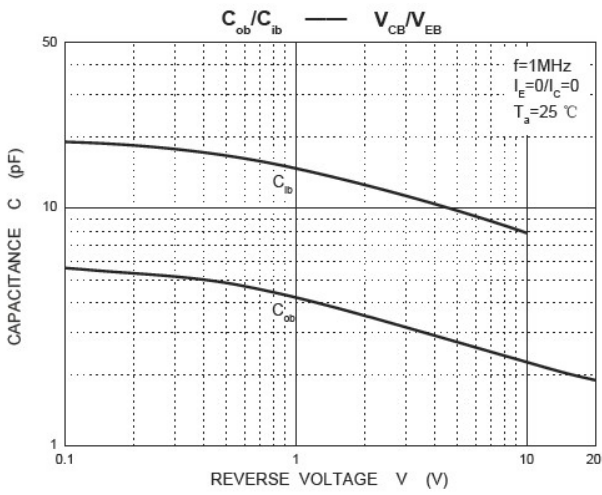
Rank	Q	R	L7
Range	120-270	180-390	270-560
Marking	BQ	BR	BS

AVAILABLE PACK INFORMATION

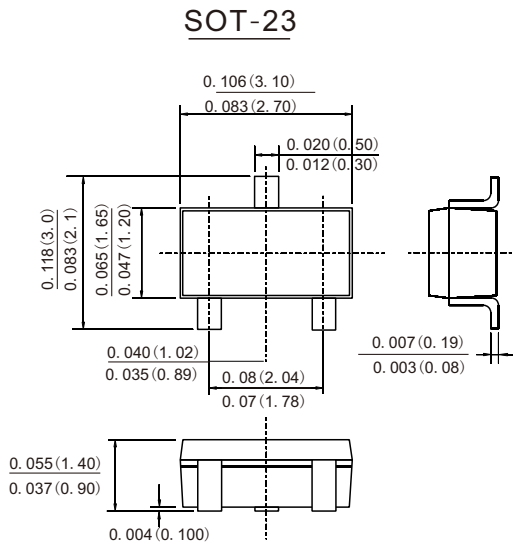
Product code	Pack	Reel Size (mm)	Quantity (Pcs/reel)	Quantity (pcs/box)	Quantity (pcs/carton)
2SC2412	T/R	Φ180	3K	30K	120K

Characteristics(Typical)



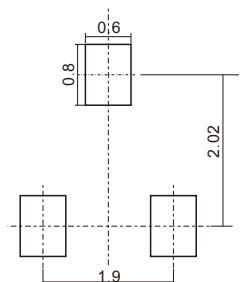


Outline Dimensions



Dimensions in inches and (millimeters)

Suggested pad layout



Dimensions in millimeters

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