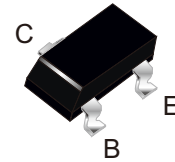


## FEATURES

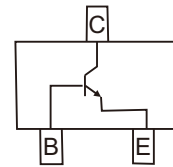
- Epoxy meets UL-94 V-0 flammability rating
- Power Dissipation of 200mW
- VHF/UHF/CATV Transistor
- High Stability and High Reliability

### SOT-23



## MECHANICAL DATA

- Case: SOT-23(TO-236)
- Terminals: Plated solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Marking: R25



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

Parameter	Symbol	Unit	Value
Collector-Emitter Voltage	$V_{CEO}$	V	12
Collector-Base Voltage	$V_{CBO}$	V	20
Emitter-Base Voltage	$V_{EBO}$	V	3
Collector Current, Continuous	$I_C$	mA	100
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	$R_{\theta JA}$	$^{\circ}\text{C}/\text{W}$	556

# 2SC3356

## ELECTRICAL CHARACTERISTICS(T<sub>A</sub>=25°C Unless otherwise specified)

Parameter	Symbol	Unit	Conditions	Min	Max	
Collector cut-off Current	I <sub>CB0</sub>	μA	V <sub>CB</sub> =10V, I <sub>E</sub> =0	---	1.0	
Emitter cut-off Current	I <sub>EB0</sub>	μA	V <sub>EB</sub> =1V, I <sub>C</sub> =0	---	1.0	
DC Current Gain*	h <sub>FE</sub>		I <sub>C</sub> =20mA, V <sub>CE</sub> =10V	Q	50	100
				R	80	160
				S	125	250
Feed-Back Capacitance	C <sub>re**</sub>	pF	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1.0MHz	0.55(Typ)	1.0	
Insertion Power Gain	S <sub>21e</sub>   <sup>2</sup>	dB	V <sub>CE</sub> =10V, f=1.0GHz, I <sub>C</sub> =20mA	11.5(Typ)	---	
Transition frequency	f <sub>T</sub>	GHz	I <sub>C</sub> =20mA, V <sub>CE</sub> =10V	7(Typ)	---	
Noise Figure	NF	dB	V <sub>CE</sub> =10V, f=1.0GHz, I <sub>C</sub> =7mA	1.1(Typ)	2	

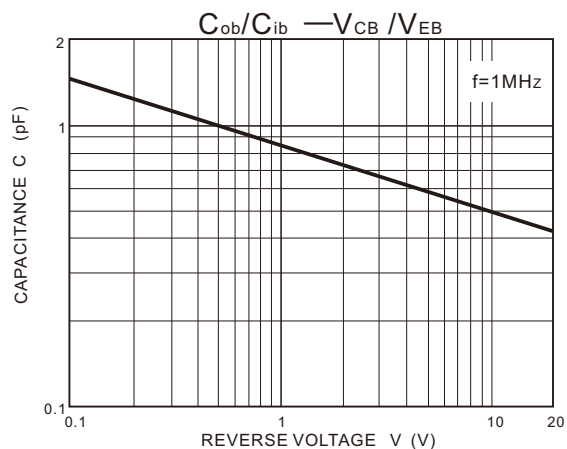
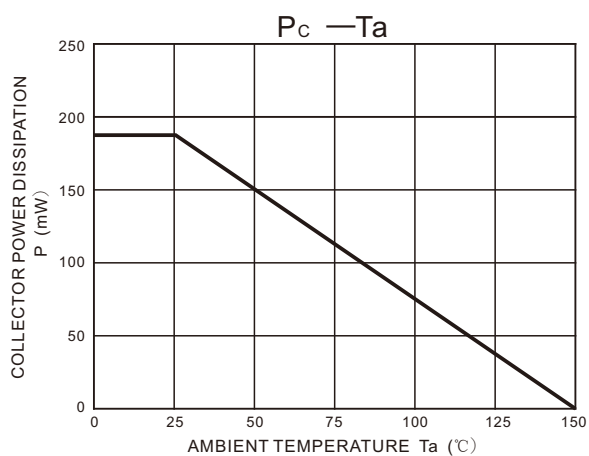
\*Pulse measurement PW≤350us, duty cycle≤2.0%

\*\*The emitter terminal and the case shall be connected to the guard terminal of the three-terminal capacitance

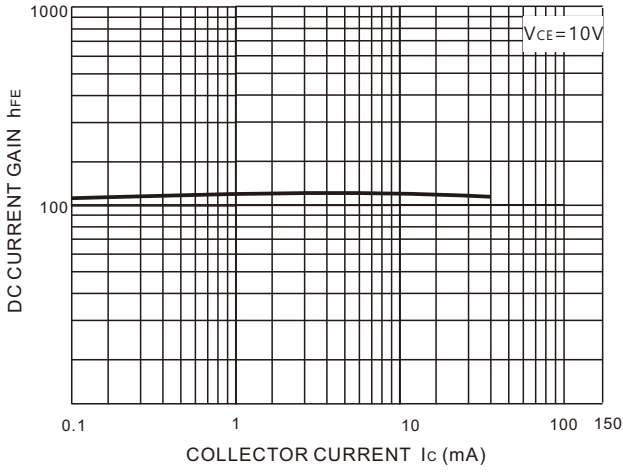
## AVAILABALE PACK INFORMATION

Product code	Pack	Reel Size (mm)	Quantity (Pcs/reel)	Quantity (pcs/box)	Quantity (pcs/carton)
2SC3356	T/R	Φ180	3K	30K	120K

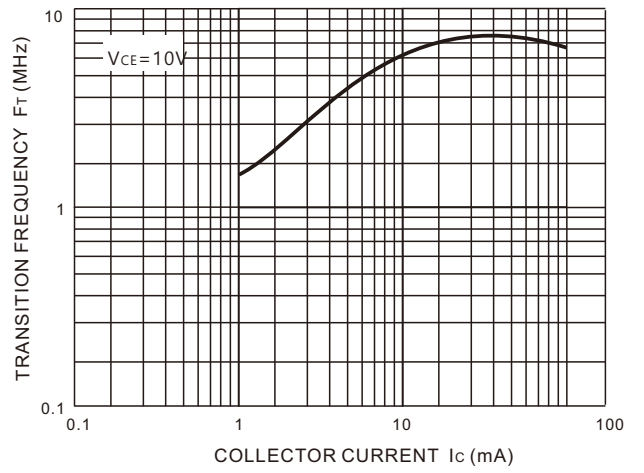
## Characteristics(Typical)



$h_{FE} - I_C$

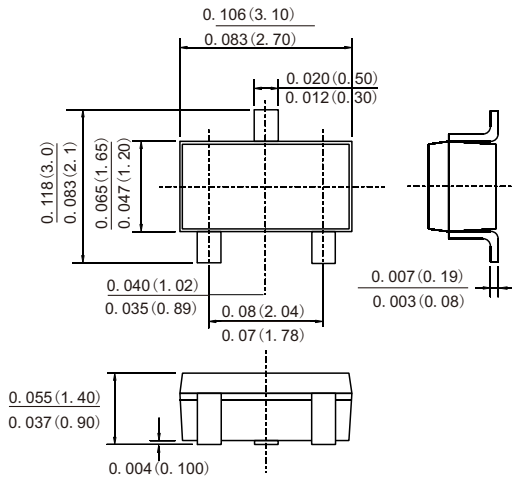


$f_T - I_C$



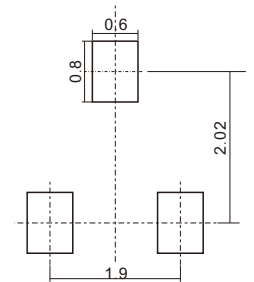
Outline Dimensions

SOT-23



Dimensions in inches and (millimeters)

Suggested pad layout



Dimensions in millimeters

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