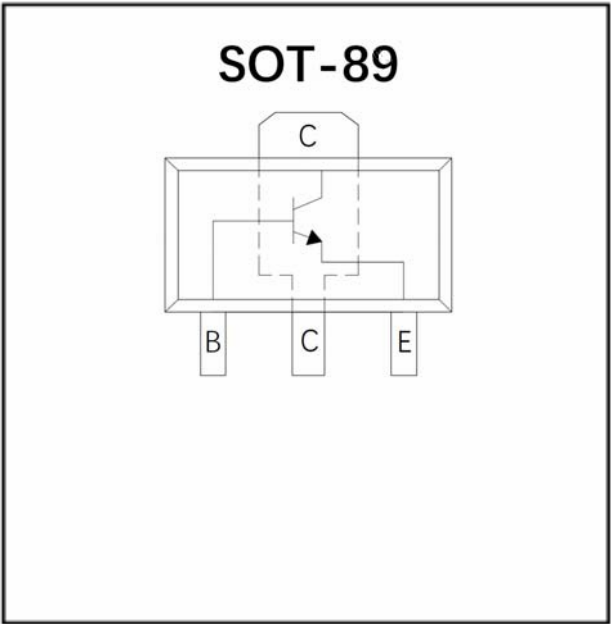




- ✕ Epoxy meets UL-94 V-0 flammability rating
- ✕ Halogen free available upon request by adding suffix ϕ HF ϕ
- ✕ Moisture Sensitivity Level 1
- ✕ Low collector-emitter saturation voltage

Mechanical Data

- ✕ Package: SOT-89
- Molding compound meets UL 94 V-0 flammability rating , RoHS-compliant , halogen-free
- ✕ Terminals: Tin plated leads , solderable per J-STD-002 and JEDEC B102
- ✕ Marking: BL

■Maximum Ratings (Ta = 25 °C)

Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	V_{CE0}	V	$I_C = 10\text{ mA}$	80
Minimum Collector-Base Voltage	V_{CB0}	V	$I_C = 100\text{ }\mu\text{A}$	100
Minimum Emitter-Base Voltage	V_{EB0}	V	$I_E = 10\text{ }\mu\text{A}$	5
Collector Current	I_C	A		1
Collector Power Dissipation	P_C	mW		500
Storage Temperature	T_{stg}	-		WR



BCX56

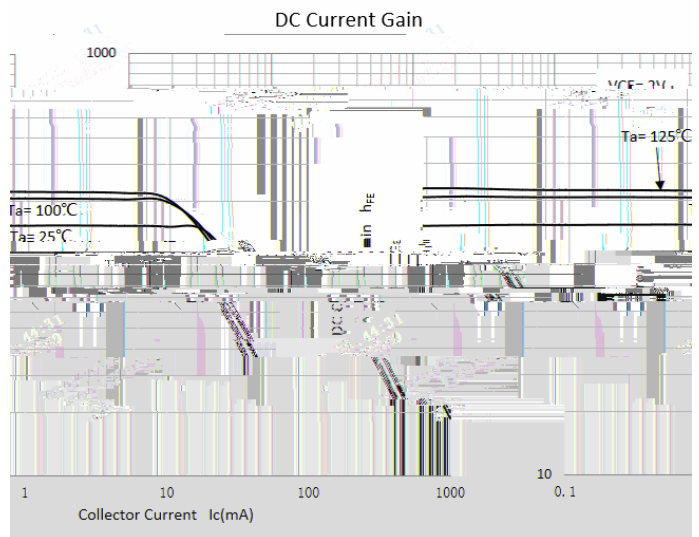
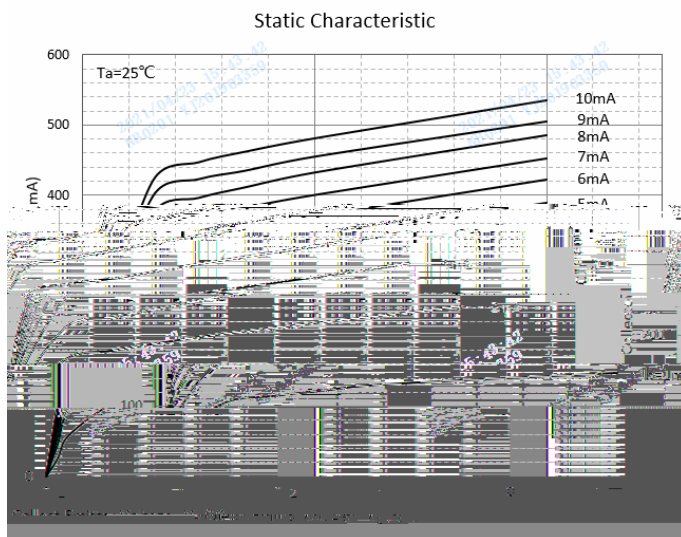
Electrical Characteristics ($T_a = 25^\circ\text{C}$ unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-Emitter Voltage	V_{CE0}	V	$I_C = 10\text{ mA}$	80		
Collector-Base Voltage	V_{CB0}	V	$I_C = 100\text{ }\mu\text{A}$	100		
Emitter-Base Voltage	V_{EB0}	V	$I_E = 10\text{ }\mu\text{A}$	5		
Collector-Base cut-off current	I_{CBO}	nA	$V_{CB} = 30\text{ V}$			100
Emitter-Base cut-off current	I_{EBO}	nA	$V_{EB} = 5\text{ V}$			100
DC Current Gain	h_{FE1}		$V_{CE} = 2\text{ V}$, $I_C = 150\text{ mA}$	63		250
	h_{FE2}		$V_{CE} = 2\text{ V}$, $I_C = 5\text{ mA}$	40		
	h_{FE3}		$V_{CE} = 2\text{ V}$, $I_C = 500\text{ }\mu\text{A}$	25		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	$I_C = 500\text{ mA}$, $I_E = 50\text{ mA}$			0.5
Base-Emitter Voltage	V_{BE}	V	$V_{CE} = 2\text{ V}$, $I_C = 500\text{ }\mu\text{A}$			1
Transition Frequency	f_T	MHz	$I_C = 10\text{ mA}$, $V_{CE} = 5\text{ V}$, $f = 100\text{ MHz}$			130

Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BCX56	F2	Approximate 0.055	1000	8000	32000	

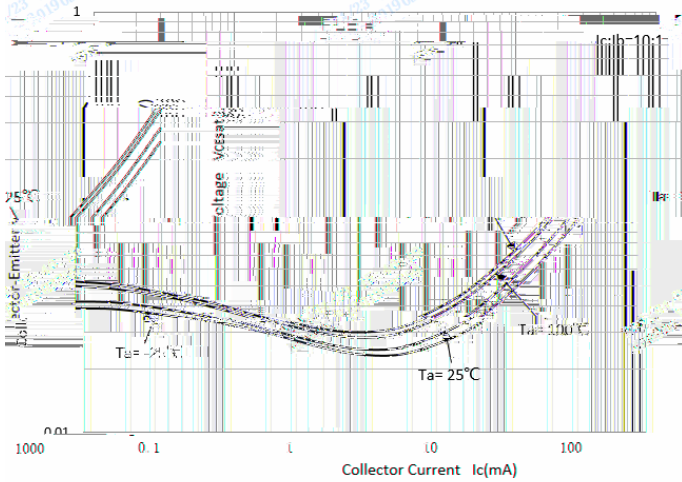
Characteristics (Typical)



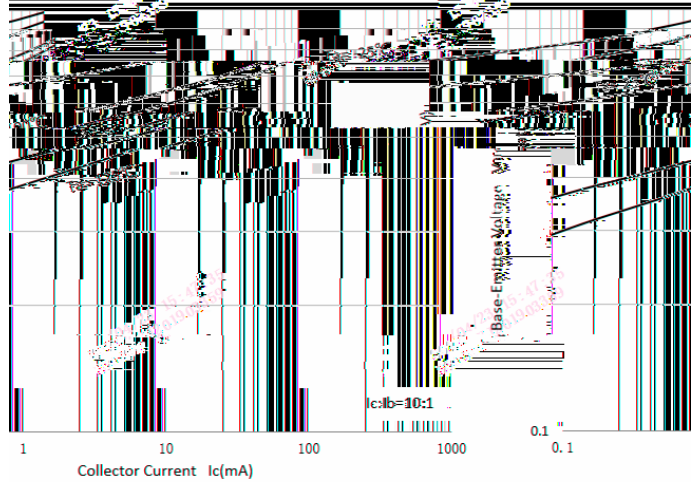


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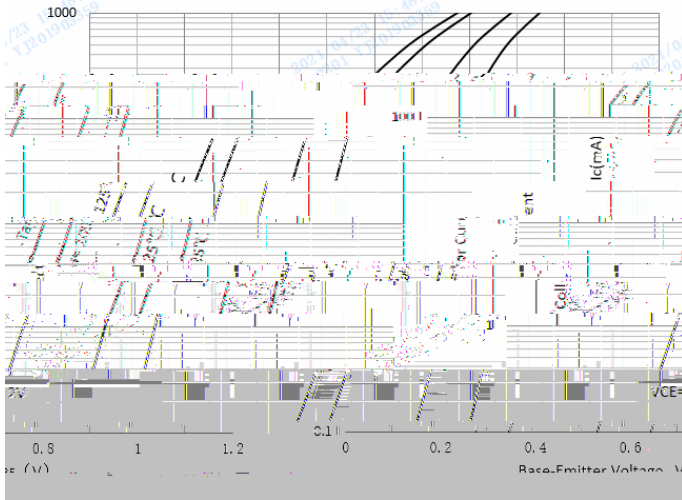
Collector-Emitter Saturation Voltage



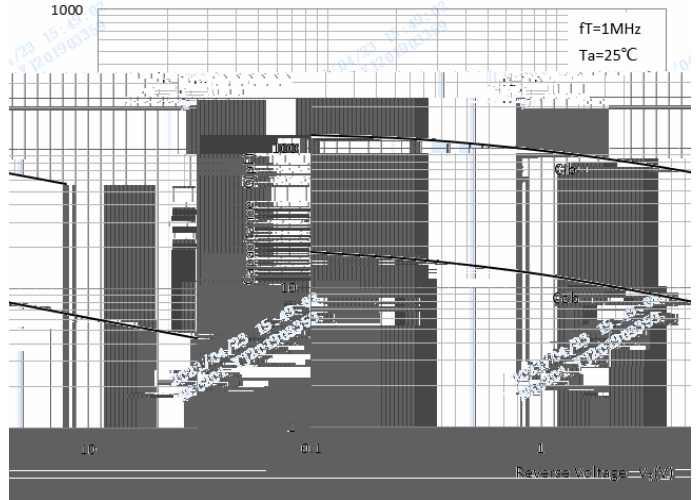
Base-Emitter Saturation Voltage



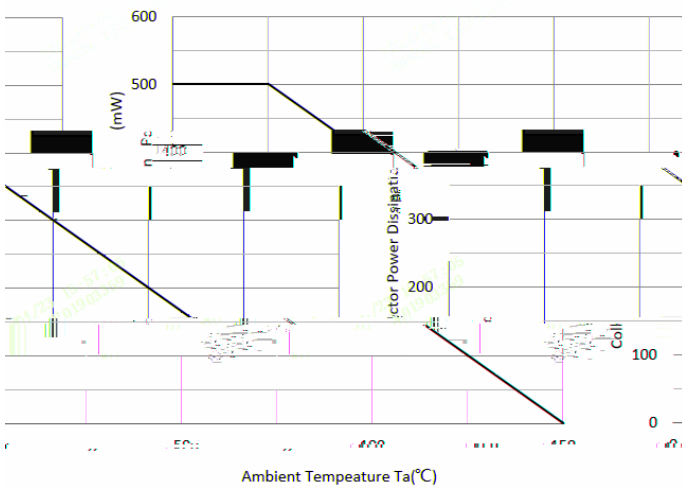
Base-Emitter On Voltage



Cob/Cib-V_{CB}/V_{EB}

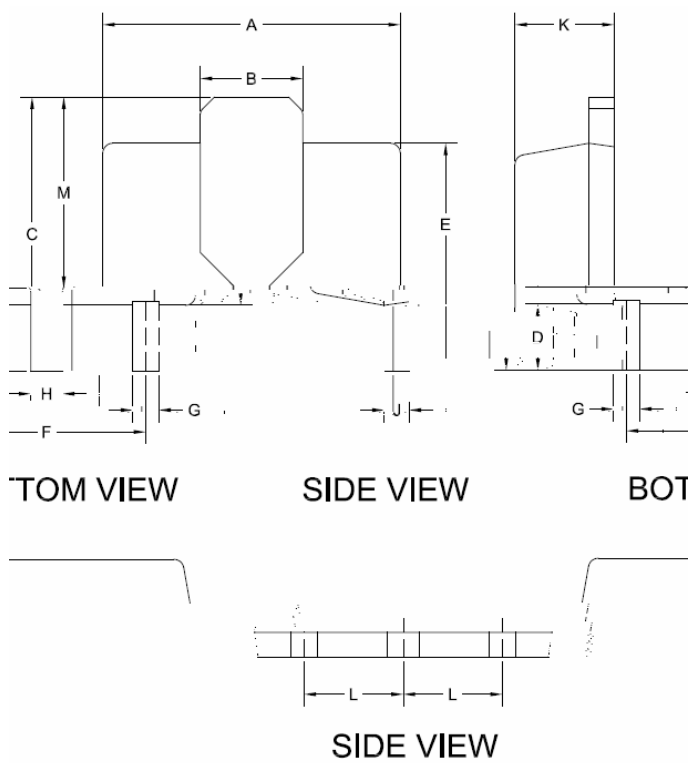


Collector Power Dissipation Capability

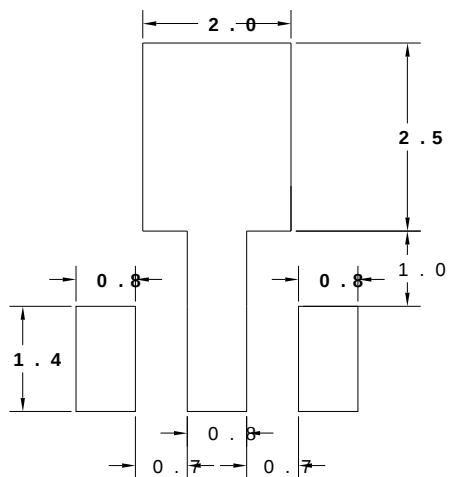




SOT-89 Package Outline Dimensions



SOT-89 Suggested Pad Layout



UNIT:MM



Disclaimer

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