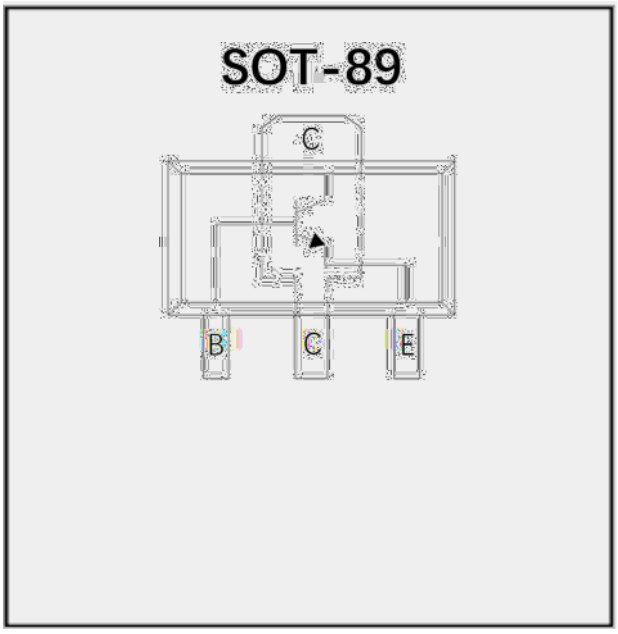
BCX56

RoHS
COMPLIANT



- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moitsure 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 JESD22-B102
- Marking: BL

■Maximum Ratings (Ta = 25 XQOHVV RWKHUZLVH QRWHG

Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	V_{CEO}	V	I_C = 10mA, I_B = 0	80
Minimum Collector-Base Voltage	V_{CBO}	V	I_C = 100uA, I_E = 0	100
Minimum Emitter-Base Voltage	V_{EBO}	V	I_E = 10uA, I_C = 0	5
Collector Current	I_C	A		1
Collector Power Dissipation	P_C	mW		500
Storage Temperature	T_{stg}	-		WR

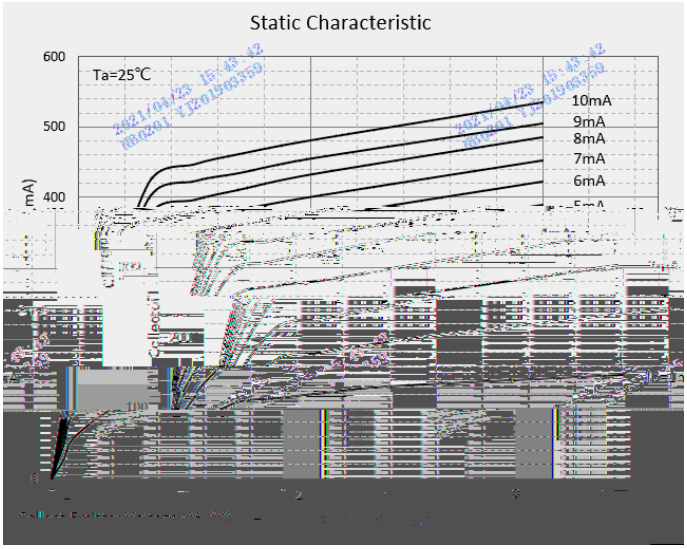
yElectrical Characteristics (Ta = 25℃ unless otherwise noted)

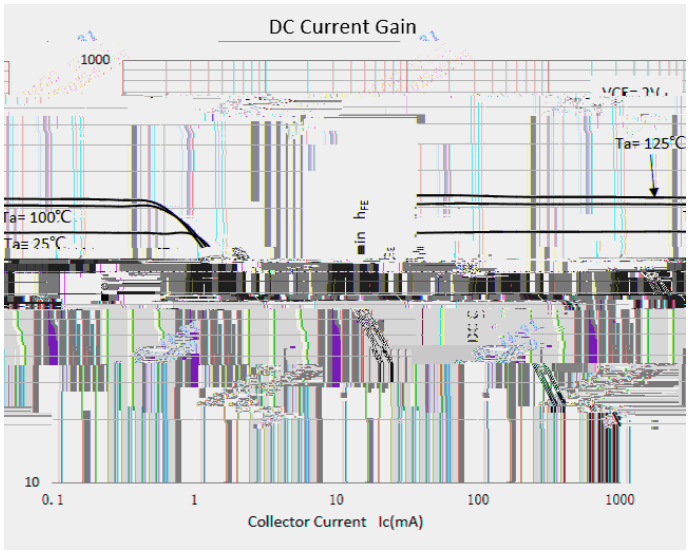
Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-Emitter Voltage	V_{CEO}	V	I_C = 10mA, I_B = 0	80		
Collector-Base Voltage	V_{CBO}	V	I_C = 100uA, I_E = 0	100		
Emitter-Base Voltage	V_{EBO}	V	I_E = 10uA, I_C = 0	5		
Collector-Base cut-off current	I_{CBO}	nA	V_{CB} = 30V			100
Emitter-Base cut-off current	I_{EBO}	nA	V_{EB} = 5V			100
DC Current Gain	h_{FE} 1		V_{CE} = 2V, I_C = 150mA	63		250
	h_{FE} 2		V_{CE} = 2V, I_C = 5mA	40		
	h_{FE} 3		V_{CE} = 2V, I_C = 500mA	25		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	I_C = 500mA, I_B = 50mA			0.5
Base-Emitter Voltage	V_{BE}	V	V_{CE} = 2V, I_C = 500mA			1
Transition Frequency	f_T	MHz	I_C = 10mA, V_{CE} = 5V, f = 100MHz			130

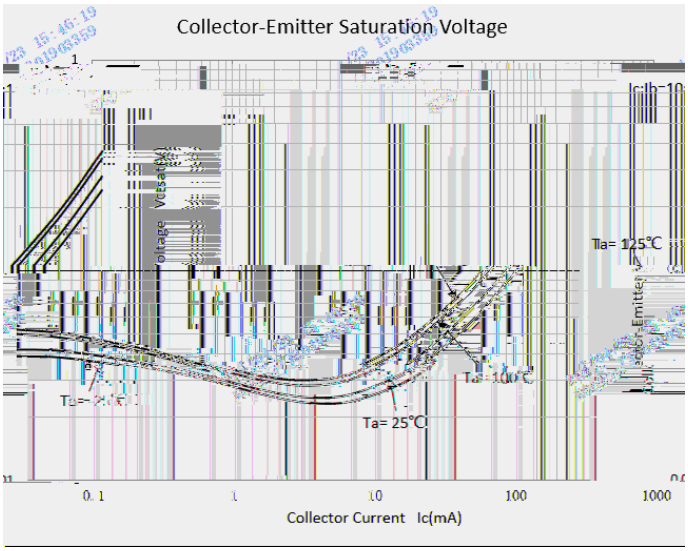
■Ordering Information (Example)

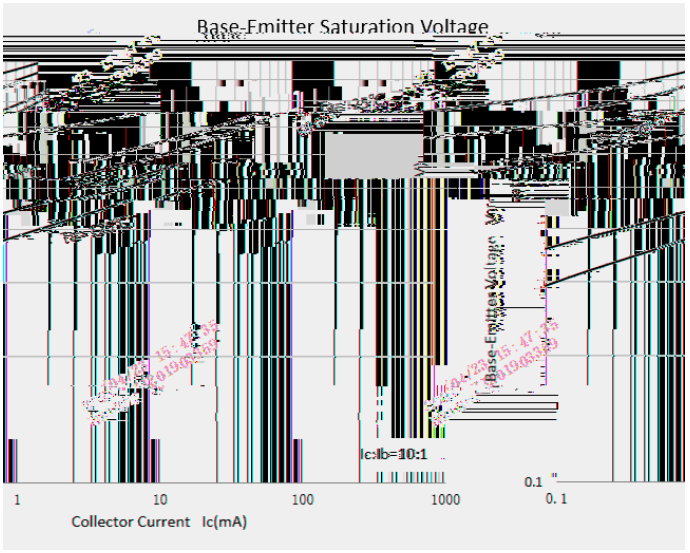
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BCX56	F2	Approximate 0.055	1000	8000	32000	7 ò r

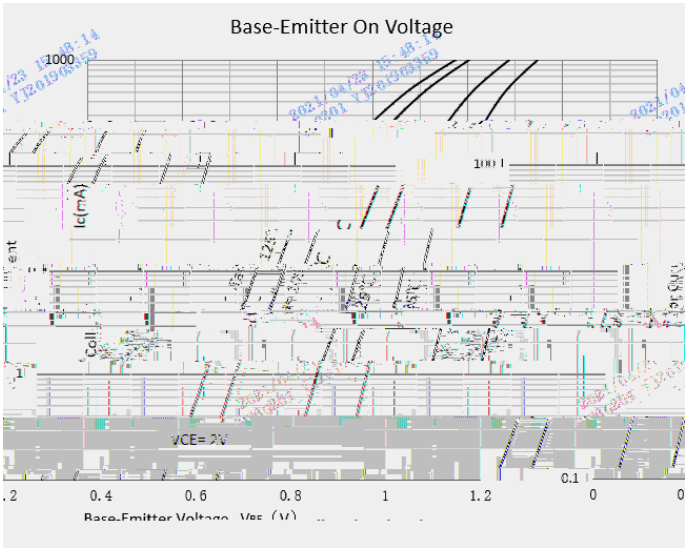
■Characteristics (Typical)

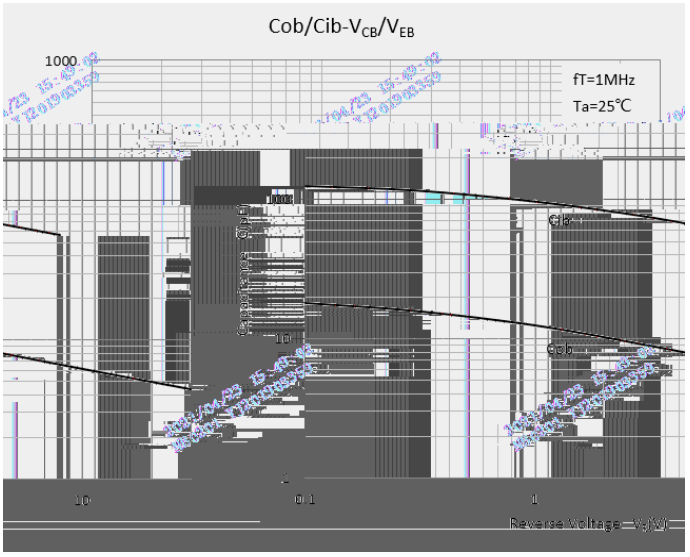


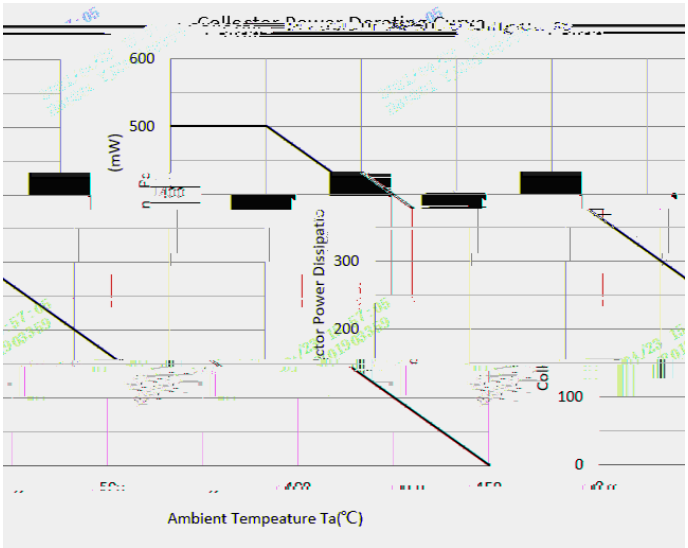



Collector-Emitter Saturation Voltage
Ta= 125°C
Ta= 25°C
Collector Current Ic(mA)

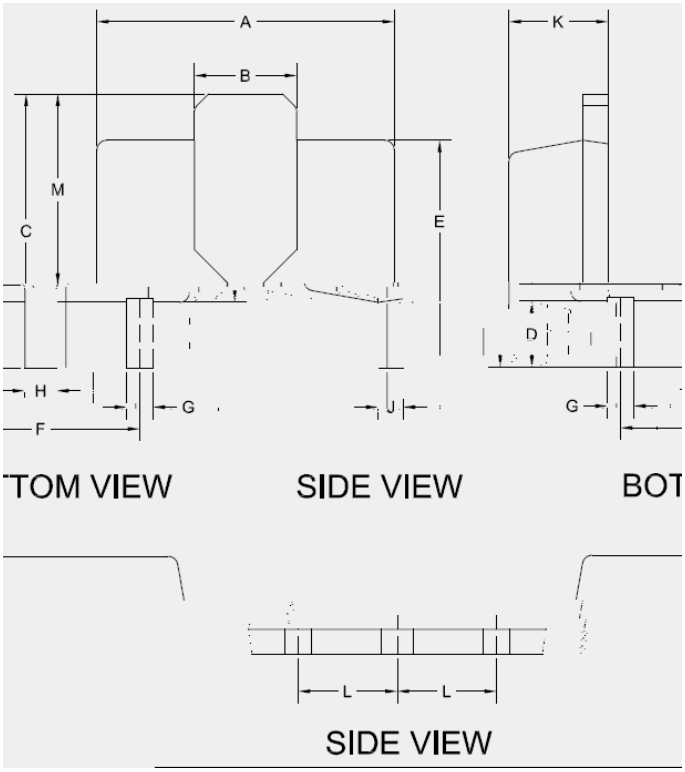

Base-Emitter Saturation Voltage
Ic:Ib=10:1
Collector Current Ic(mA)


Base-Emitter On Voltage
Ic(mA)
VCE= 2V

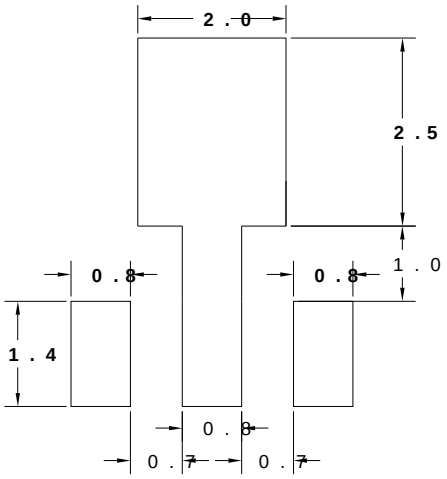

Cob/Cib-VCB/VEB
fT=1MHz
Ta=25°C


600
500
(mW)
300
200
100
0
Ambient Tempeature Ta(°C)

ySOT-89 Package Outline Dimensions



■SOT-89 Suggested Pad Layout



UNIT:MM

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