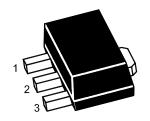


Features

- For AF driver and output stages
- High collector current
- Low collector-emitter saturation voltage

SOT-89



1.Base 2.Collector 3.Emitter

Absolute Maximum Ratings (Ta=25°C unless otherwise specified)

Parameter	Symbol	Value	Units
Collector Base Voltage	V _{CBO}	-100	V
Collector Emitter Voltage	V _{CEO}	-80	V
Emitter Base Voltage	V _{EBO}	-5	V
Collector Current	Ic	-1	A
Peak Collector Current	I _{CM}	-1.5	Α
Total Power Dissipation	P _{tot}	0.5 ⁽¹⁾ 1.3 ⁽²⁾	W
Junction Temperature	TJ	150	℃
Storage Temperature Range	T_{stg}	- 65 to + 150	°C

Note: 1.Device mounted on an FR4 Printed-Circuit Board(PCB), single-sided copper, tin-plated and standard footprint.

2. Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for collector 6 cm²

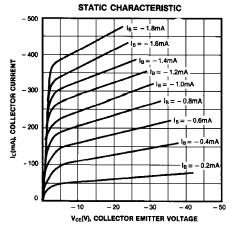
Electrical Characteristics (Ta=25 °C unless otherwise specified)

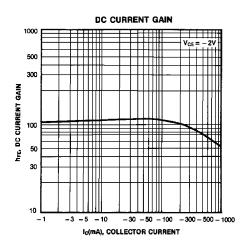
Parameter		Symbol	Min.	Тур.	Max.	Units
DC Current Gain						
at V _{CE} = -2 V, I _C = -5 mA		h _{FE}	40	-	-	-
at $V_{CE} = -2 \text{ V}, I_C = -150 \text{ mA}$	BCX53SQ-10	h _{FE}	63	-	160	-
	BCX53SQ-16	h _{FE}	100	-	250	-
at $V_{CE} = -2 \text{ V}$, $I_C = -500 \text{m A}$		h _{FE}	25	-	-	-
Collector Base Cutoff Current at V _{CB} = -30 V		-I _{CBO}	-	-	100	nA
Emitter Base Cutoff Current at V _{EB} = -5 V		-I _{EBO}	-	-	100	nA
Collector Base Breakdown Voltage at I _C = -100	μΑ	-V _{(BR)CBO}	100	-	-	V
Collector Emitter Breakdown Voltage at I _C = -1 r	mA	-V _{(BR)CEO}	80	-	-	V
Emitter Base Breakdown Voltage at I _E = -100 μA		-V _{(BR)EBO}	5	-	-	V
Collector Emitter Saturation Voltage at I_C = -500 mA, I_B = -50 mA		-V _{CE(sat)}	-	-	0.5	V
Base Emitter Voltage at V _{CE} = -2 V, I _C = -500 mA		-V _{BE}	-	-	1	V
Transition Frequency at V _{CE} =- 5 V, I _C = -50 mA, f = 100 MHz		f⊤	-	145	-	MHz
Collector Capacitance at V _{CB} =-15 V, f = 1 MHz		Сс	-	15	-	pF

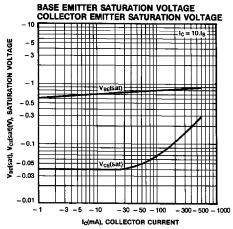
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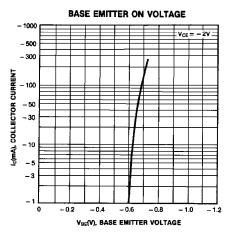


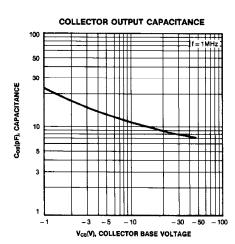
Typical Characteristic Curves

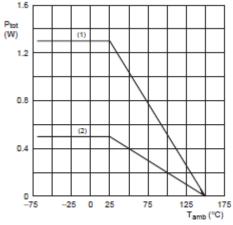












- (1) FR4 PCB, mounting pad for collector 6 cm²
- (2) FR4 PCB, standard footprint

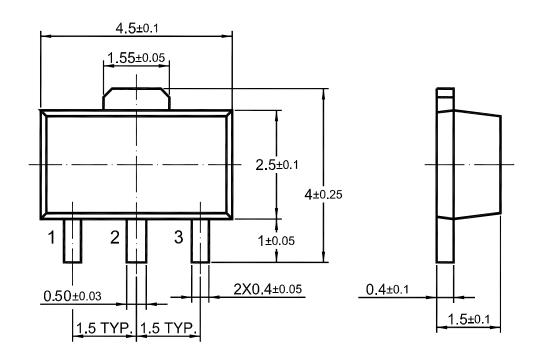
Power derating curves



Package Outline

SOT-89

Dimensions in mm



Ordering information

Device	Package	Shipping
BCX53SQ	SOT-89	1000PCS/Reel&Tape

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