



PNP GENERAL PURPOSE TRANSISTORS

VOLTAGE 30/45/65 Volt POWER 330 mWatt

FEATURES

- General Purpose Amplifier Applications
- Collector Current IC = -100mA
- Acquire quality system certificate: TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

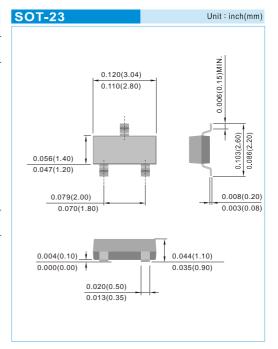
Case: SOT-23

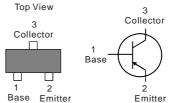
Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.0003 ounces, 0.008 grams

Marking:

Device Marking:						
BC856A-AU=56A	BC857A-AU=57A	BC858A-AU=58A				
BC856B-AU=56B	BC857B-AU=57B	BC858B-AU=58B	BC859B-AU=59B			
	BC857C-AU=57C	BC858C-AU=58C	BC859C-AU=59C			





ABSOLUTE RATINGS

Parameter	Symbol	BC856-AU	BC857-AU	BC858-AU	BC859-AU	Units
Collector - Emitter Voltage	VCEO	-65	-45	-30		V
Collector - Base Voltage	Vсво	-80	-50	-30		V
Emitter - Base Voltage	Veвo	-5			V	
ector Current - Continuous I c -100			mA			
Peak Collector Current	I см	-200			mA	
Max Power Dissipation (Note1)	Ртот	330			mW	
Typical Thermal Resistance, Junction to Ambient	RөJA	375			°C/W	
Operating Junction and Storage Temperature Range	TJ,TSTG	-50 to 150			°C	

NOTES:

1. Transistor mounted on FR-4 board 8 cm².





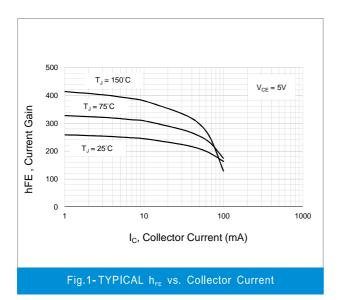
ELECTRICAL CHARACTERISTICS

Pa	arameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Collector - Emitter Breakdown Voltage	BC856A-AU,B-AU BC857A-AU,B-AU,C-AU BC858A-AU,B-AU,C-AU,BC859B-AU,C-AU	V _(BR) CEO	Ic=-10mA, IB=0		-		V
Collector - Base Breakdown Voltage	BC856A-AU,B-AU BC857A-AU,B-AU,C-AU BC858A-AU,B-AU,C-AU,BC859B-AU,C-AU	V _(BR) CBO	Ic=-10μA, Iε=0	-80 -50 -30	-	-	V
Emitter - Base Breakdown Voltage		V _(BR) EBO	Iε=-1μΑ, Ic=0	-5	-	•	V
Emitter-Base Cutoff Current		Гево	VEB=-5V	-	-	-100	nA
Collector-Base Cutoff Current		Ісво	VcB=-30V, IE=0 VcB=-30V, IE=0,TJ=150°C	-	-	-15 -4	nΑ μΑ
DC Current Gain	BC856A-AU,BC857A-AU,BC858A-AU BC856B-AU,BC857B-AU,BC858B-AU,BC859B-AU BC857C-AU,BC858C-AU,BC859C-AU	h _{FE}	Ic=-10μA, VcE=-5V	-	90 150 270		-
DC Current Gain	BC856A-AU,BC857A-AU,BC858A-AU BC856B-AU,BC857B-AU,BC858B-AU,BC859B-AU BC857C-AU,BC858C-AU,BC859C-AU	h _{FE}	Ic=-2mA, VcE=-5V	110 220 420	180 290 520	220 475 800	-
Collector - Emitter Saturation Voltage		VCE(SAT)	Ic=-10mA, IB=-0.5mA Ic=-100mA, IB=-5mA	-	-	-0.3 -0.65	V
Base - Emitter Saturation Voltage		VBE(SAT)	Ic=-10mA, IB=-0.5mA Ic=-100mA, IB=-5mA	-	-0.7 -0.9	-	V
Base - Emitter On Voltage		VBE(ON)	Ic=-2mA, VcE=-5V Ic=-10mA, VcE=-5V	-0.6 -		-0.75 -0.82	V
Collector - Base Capacitance		Ссв	VCB=-10V, IE=0, f=1MHz	-	-	4.5	pF
Current-Gain-Bandwidth Product		FT	Ic=-10mA, VcE=-5V,f=100MHz	-	200	ı	MHz





ELECTRICAL CHARACTERISTICS CURVES



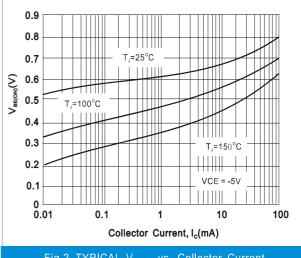


Fig.2-TYPICAL $V_{\mbox{\tiny BE(ON)}}$ vs. Collector Current

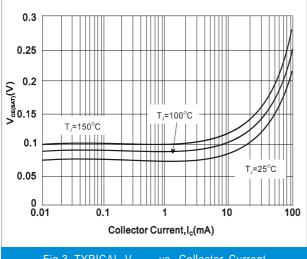


Fig.3-TYPICAL $V_{\text{CE(SAT)}}$ vs. Collector Current

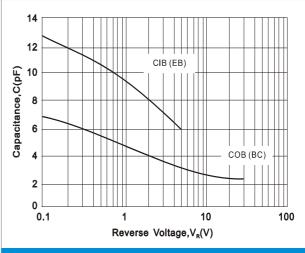


Fig.4-TYPICAL CAPACITANCES vs. REVERSE VOLTAGE

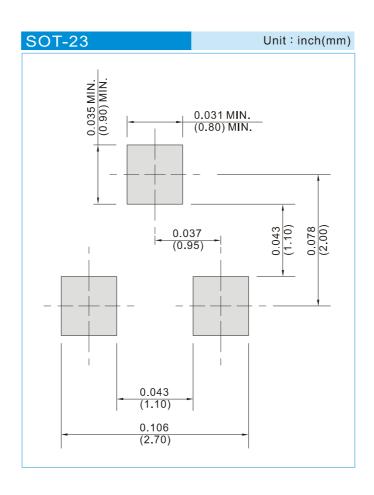




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
BC856A-AU_R1_000A1	SOT-23	3K pcs / 7" reel	56A	Halogen free
BC856A-AU_R2_000A1	SOT-23	12K pcs / 13" reel	56A	Halogen free

MOUNTING PAD LAYOUT







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