

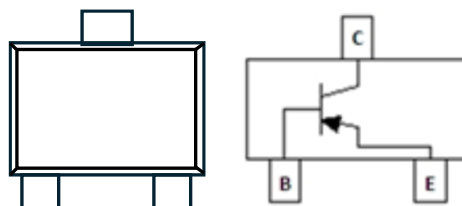
FEATURES AND BENEFITS

Product Summary

I_C	-100mA	@25 °C
BV_{CBO}	-80V	@ $I_C=-10\mu A$
BV_{CEO}	-65V	@ $I_C=-10mA$
BV_{EBO}	-5V	@ $I_E=-1\mu A$

- RoHS Compliant / Green EMC UL Flammability Classification Rating 94V-0
- Matte Tin (Sn) Lead finish Solderable per MIL-STD-202, Method 208
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 0.0012 grams (Approximate)

SOT-723



Maximum Ratings (TA = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V_{CEO}	-65	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-100	mA
Collector Power Dissipation	P_T	265	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

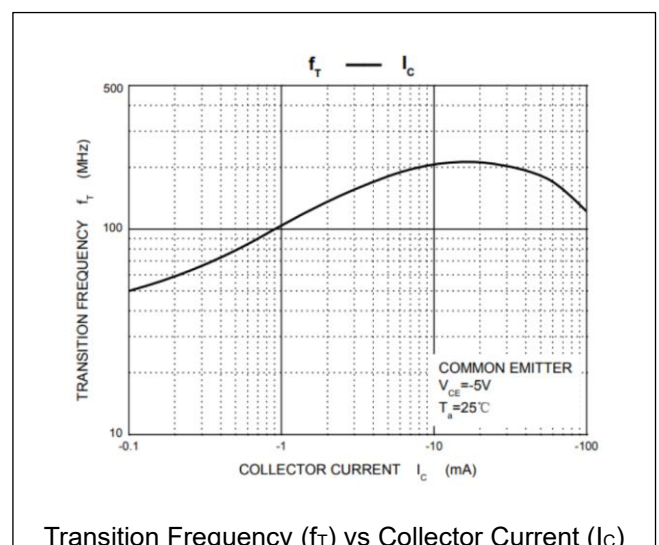
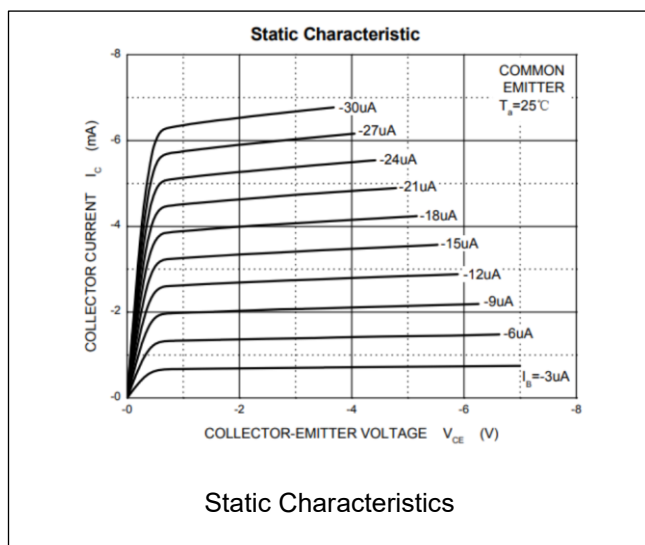
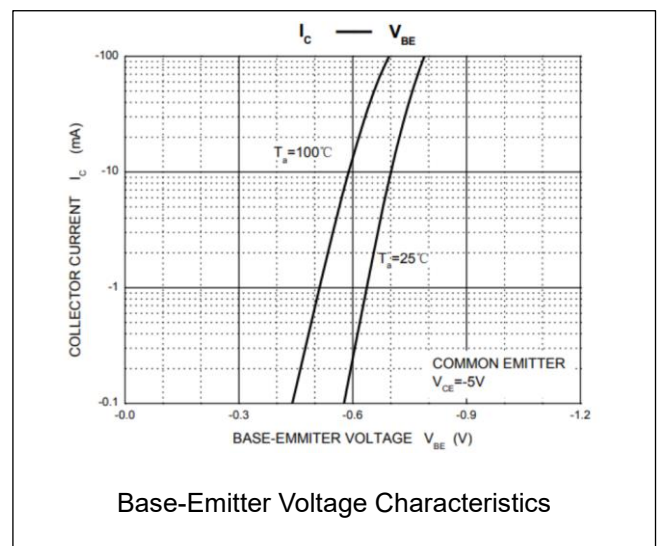
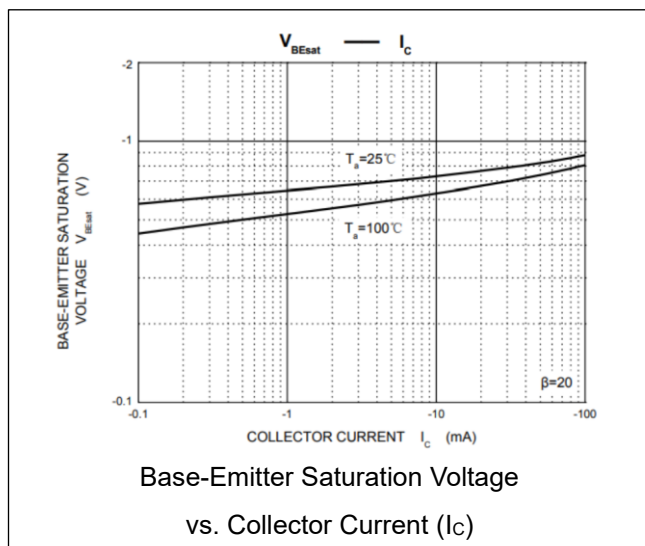
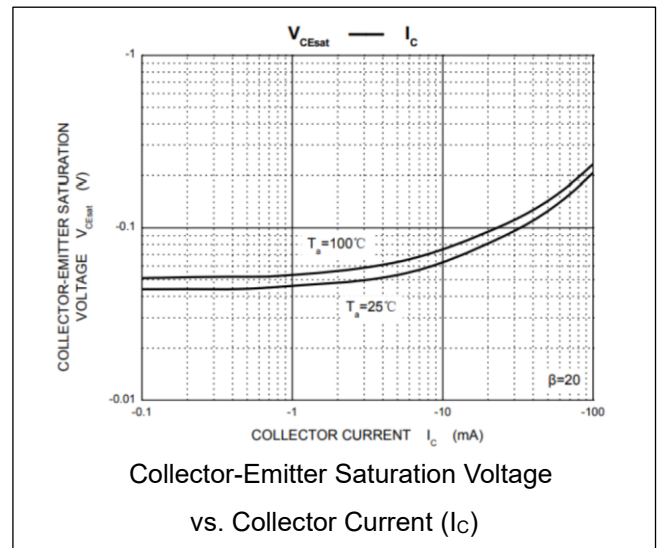
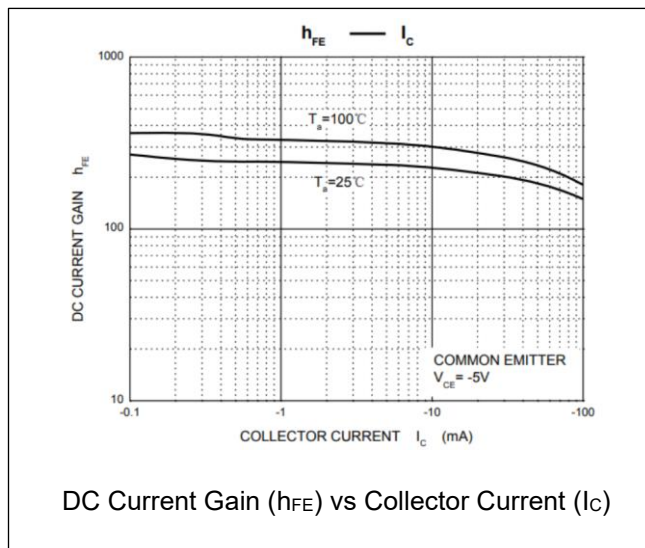
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient*	$R_{\theta JA}$	472	°C/W

* Device mounted on FR-5: 1.0 X 0.75 X 0.062 inch

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

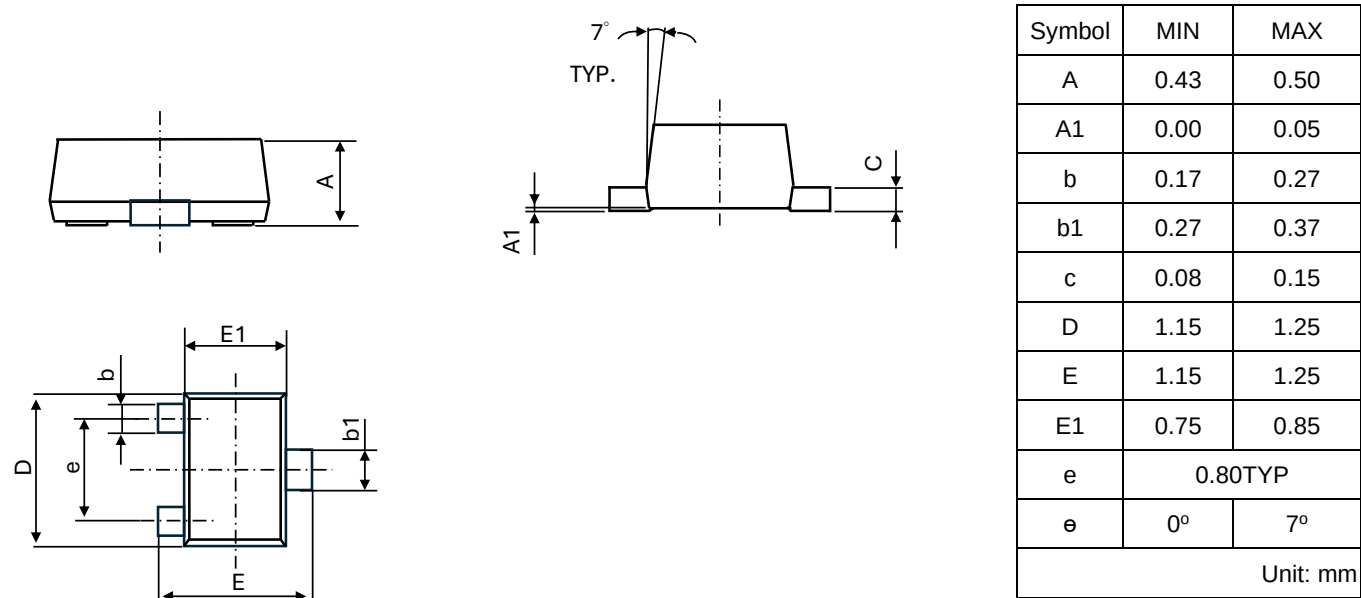
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-65		V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -10\mu A, I_E = 0$	-80		V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -1\mu A, I_C = 0$	-5		V
Collector Cutoff Current	I_{CBO}	$V_{CB} = -30V, I_E = 0$		-15	nA
Emitter Cutoff Current	I_{CEO}	$V_{CE} = -30V, I_B = 0V$		-1	mA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$		-100	nA
DC Current Gain	h_{FE}	$V_{CE} = -5V, I_C = -2mA$	110	220	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -10mA, I_B = -0.5mA$		-0.30	V
		$I_C = -100mA, I_B = -5mA$		-0.60	
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -10mA, I_B = -0.5mA$		-0.9	V
		$I_C = -100mA, I_B = -5mA$		-1.1	
Base-Emitter Voltage	$V_{BE(on)}$	$V_{CE} = -5V, I_C = -2mA$	-0.6	-0.75	V
		$V_{CE} = -5V, I_C = -10mA$		-0.82	
Transition Frequency	f_T	$V_{CE} = -5V, I_C = -10mA, f = 100MHz$	100		MHz

RATING AND CHARACTERISTICS CURVES

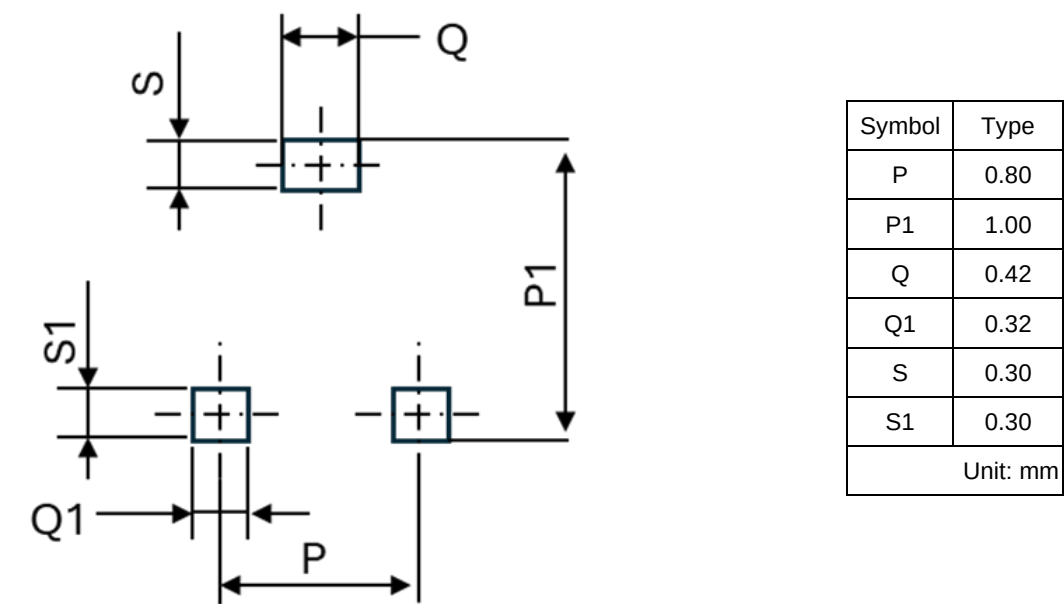


PACKAGE OUTLINE DIMENSIONS

SOT-723

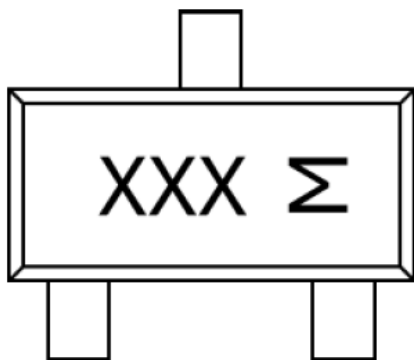


SUGGESTED PAD LAYOUT



DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BC856AM3	3A	8000/7"Reel	Tape & Reel



XXX: Product Marking Code

Σ : Date Code (Rotate 90° counterclockwise)

Odd Year	Even Year
1	E
2	F
3	H
4	J
5	K
6	L
7	N
8	P
9	U
T	X
V	Y
C	Z

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