

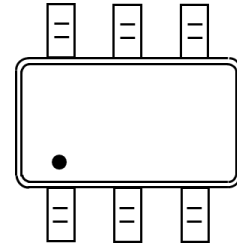
FEATURES AND BENEFITS

Product Summary

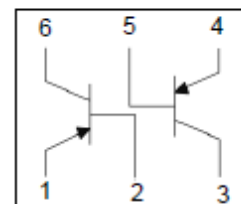
I_C	-100mA	@25 °C
BV_{CBO}	-80V	@ $I_C=-10\mu A$
BV_{CEO}	-65V	@ $I_C=-10mA$
BV_{EBO}	-5V	@ $I_E=-10\mu A$

- For General Purpose PNP Amplifier
- 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

SOT-363



Equivalent Circuit

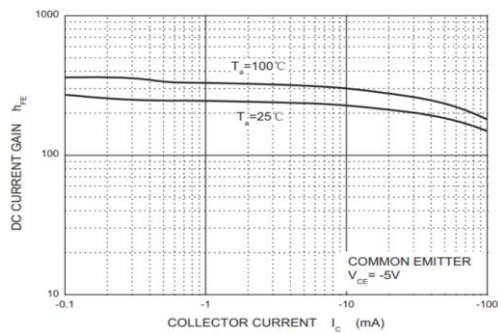


Maximum Ratings (TA = 25 °C unless otherwise noted)

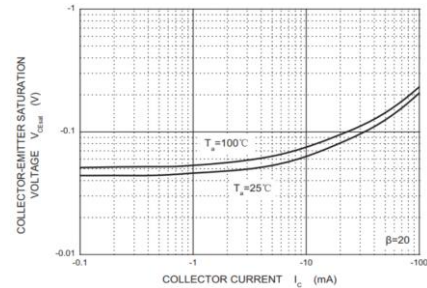
PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V_{CEO}	-65	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-100	mA
Collector Power Dissipation	P_T	-200	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)						
PARAMETER	SYMBOL	CONDITION	MIN	TYP	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	$V_{(BR)EBO}$	$I_E = -10\mu A, I_C = 0$	-5			V
Collector Cutoff Current	I_{CBO}	$V_{CB} = -30V, I_E = 0$			-15	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			-100	nA
DC Current Gain	h_{FE}	$I_C = -2mA, V_{CE} = -5V$	110			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -10mA, I_B = -0.5mA$			-0.1	V
		$I_C = -100mA, I_B = -5mA$			-0.3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -10mA, I_B = -0.5mA$		-0.75	-0.85	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5V, I_C = -2mA$			-0.75	V
Transition Frequency	f_T	$V_{CE} = -5V, I_C = -10mA, f = 100MHz$	100			MHz
Output Capacitance	C_{obo}	$V_{CB} = -10V, I_E = 0, f = 1MHz$			2.5	pF

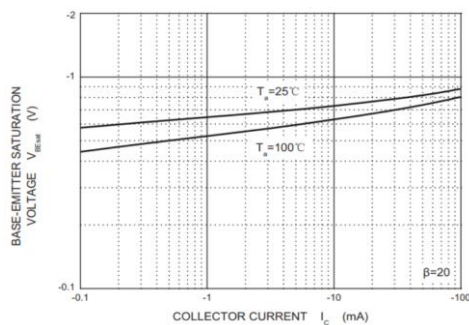
RATING AND CHARACTERISTICS CURVES



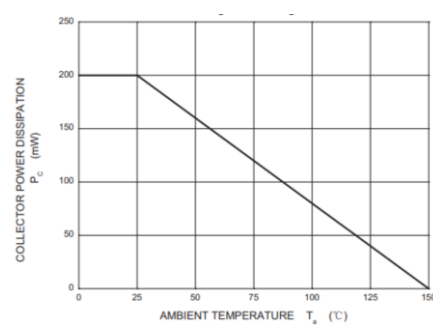
DC Current Gain (h_{FE}) vs Collector Current (I_C)



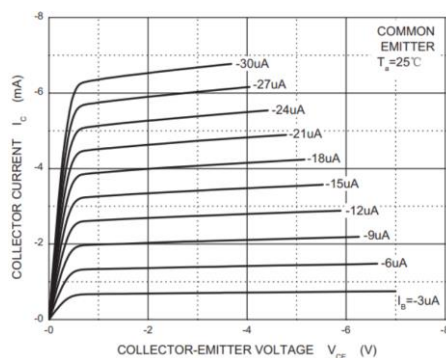
Collector-Emitter Saturation Voltage vs. Collector Current (I_C)



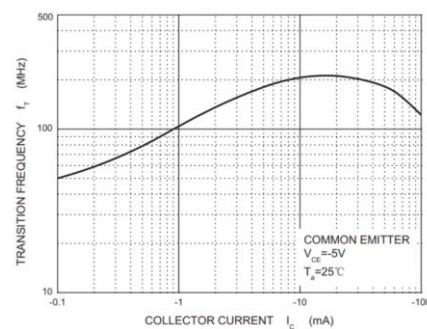
Base-Emitter Saturation Voltage vs. Collector Current (I_C)



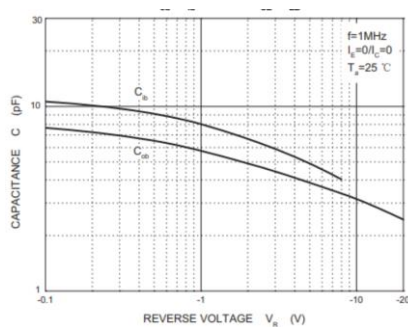
Collector Power Dissipation(mW) vs. Ambient Temperature ($^\circ\text{C}$)



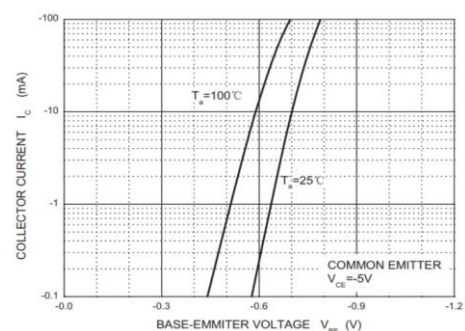
Static Characteristics



Transition Frequency vs. Collector Current



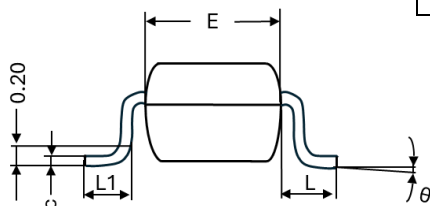
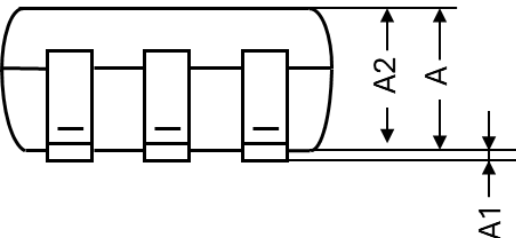
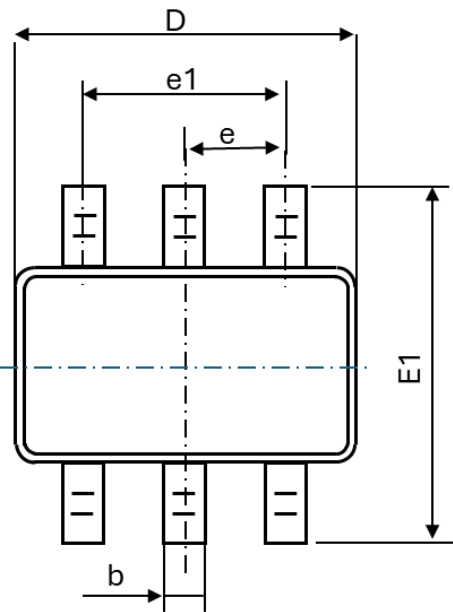
Capacitance C(pF) vs Reverse Voltage(V)



Base-Emitter Voltage Characteristics

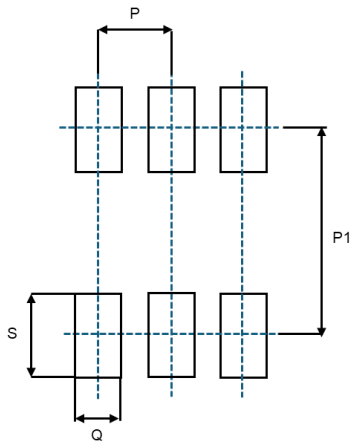
PACKAGE OUTLINE DIMENSIONS

SOT-363



Symbol	MIN	MAX
A	0.90	1.00
A1	0.00	0.10
A2	0.90	1.00
b	0.15	0.35
c	0.10	0.15
D	2.00	2.20
E	1.15	1.35
E1	2.15	2.40
e	0.650TYP.	
e1	1.20	1.40
L	0.525REF.	
L1	0.26	0.46
θ	0°	8°
Unit: mm		

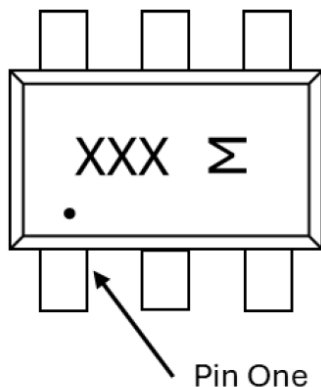
SUGGESTED PAD LAYOUT



Symbol	Type
P	0.65
P1	1.94
Q	0.40
S	0.816
Unit: mm	

DEVICE MARKING AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BC856BS	5Ft	3000/7"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

NOTICE:

AZUREMOTO'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS COMPONENTS IN ANY LIFE SUPPORT DEVICES OR SYSTEMS. AZUREMOTO RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY OR RUGGEDNESS.