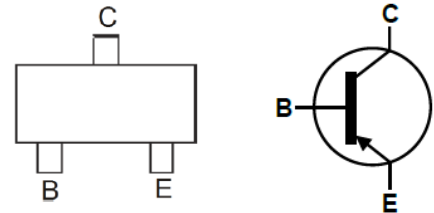


FEATURES AND BENEFITS

Product Summary		
I_C	-500mA	@25 °C
BV_{CBO}	-50V	@ $I_C=-10\mu A$
BV_{CEO}	-45V	@ $I_C=-10mA$
BV_{EBO}	-5V	@ $I_E=-1\mu A$

- 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
- Weight: 0.008 grams (Approximate)

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Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-50	V
Collector-Emitter Voltage	V_{CEO}	-45	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-500	mA
Collector Power Dissipation	P_T	300	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

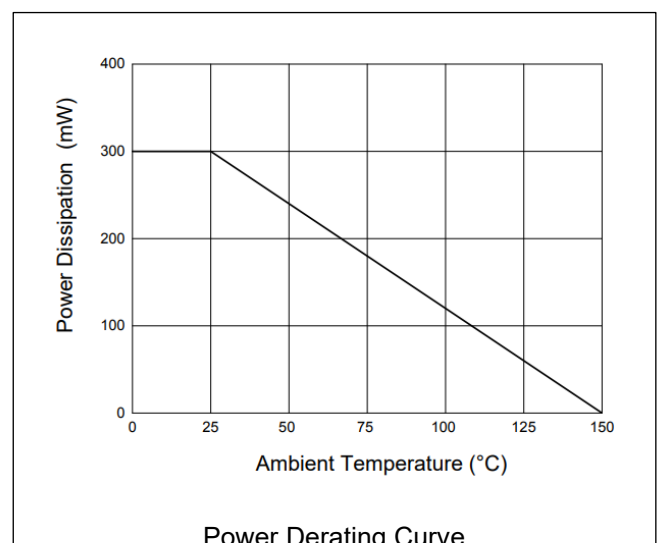
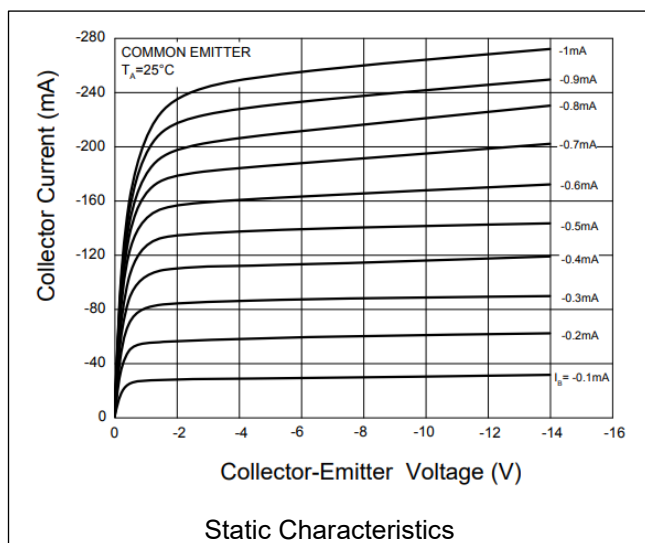
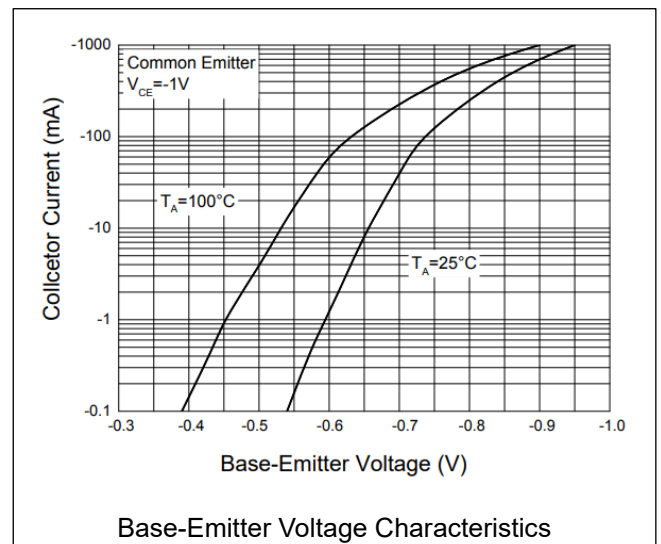
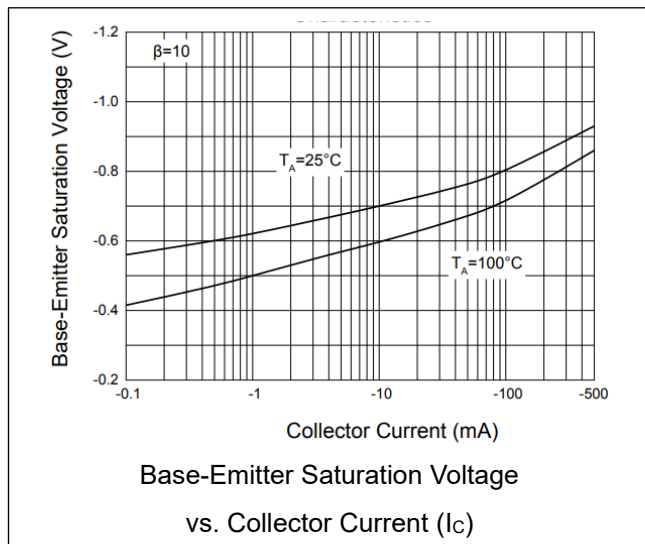
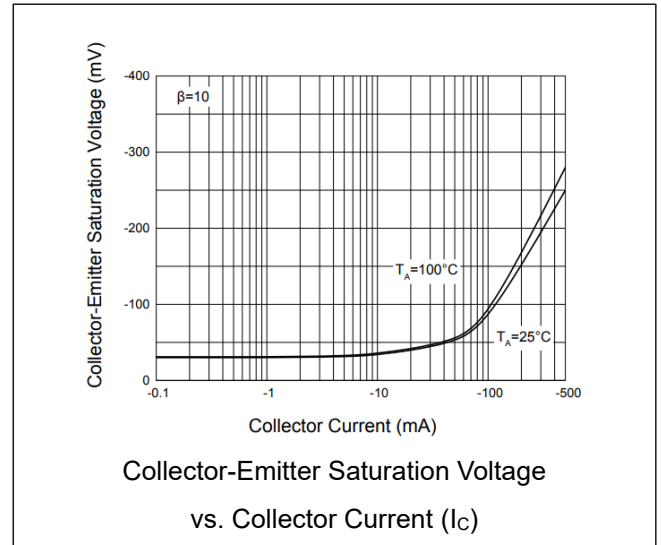
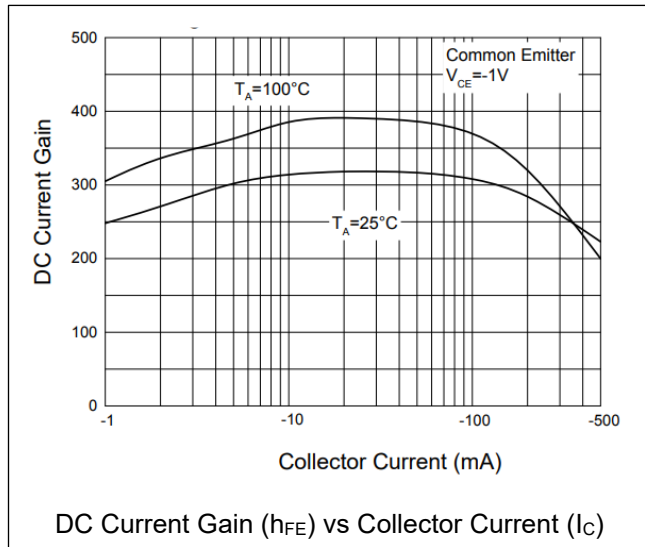
THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient*	$R_{\theta JA}$	417	°C/W

* Device mounted on 1"x1" FR4 PCB

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

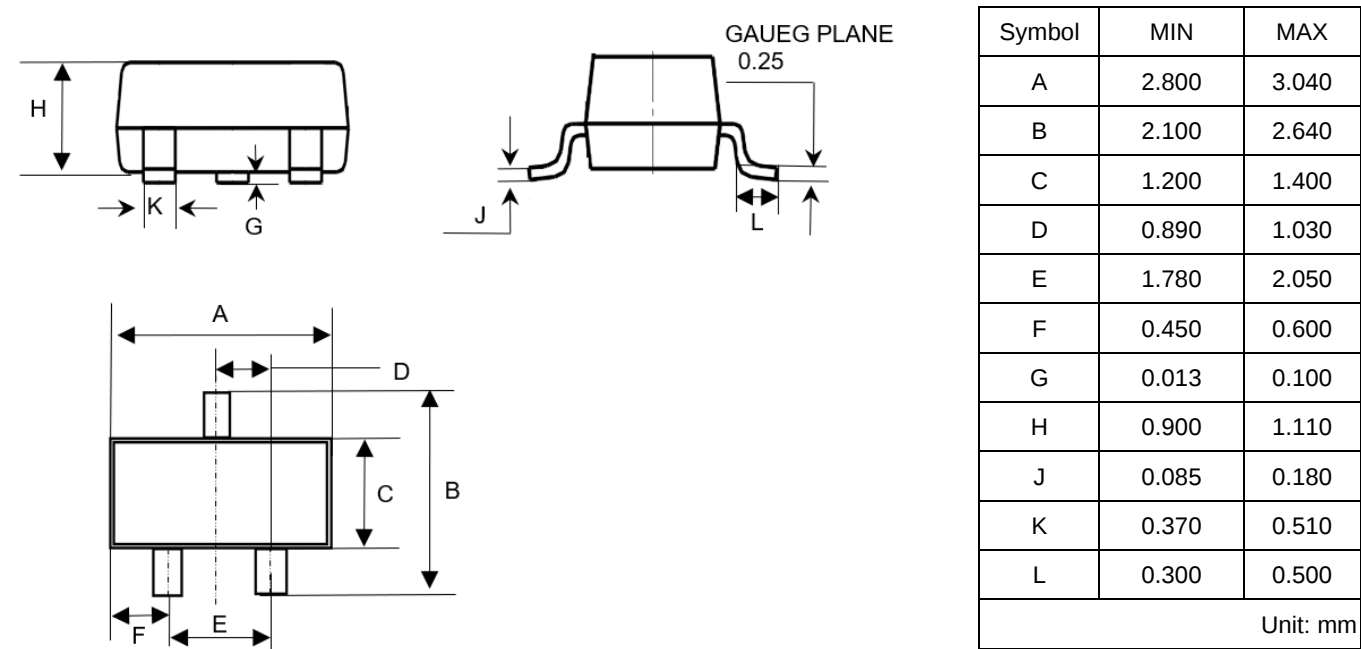
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10mA, I_B = 0$	-45		V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -10\mu A, I_E = 0$	-50		V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -1\mu A, I_C = 0$	-5		V
Collector Cutoff Current	I_{CBO}	$V_{CB} = -45V, I_E = 0$		-100	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -4V, I_C = 0$		-100	nA
DC Current Gain	h_{FE}	$I_C = -100mA, V_{CE} = -1V$	250	600	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500mA, I_B = -50mA$		-0.7	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -500mA, I_B = -50mA$		-1.2	V
Transition Frequency	f_T	$I_C = -10mA, V_{CE} = -5V, f = 100MHz$	100		MHz

RATING AND CHARACTERISTICS CURVES

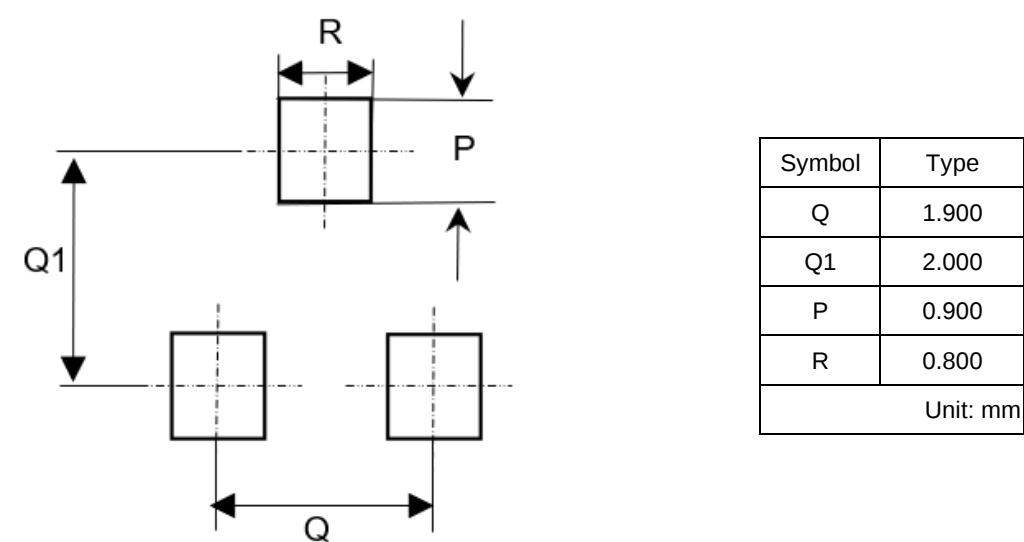


PACKAGE OUTLINE DIMENSIONS

SOT-23



SUGGESTED PAD LAYOUT



Land Pattern Recommendation

DEVICE MARKING AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BC807-40	5C	3000/Reel	Tape & Reel

NOTICE:

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