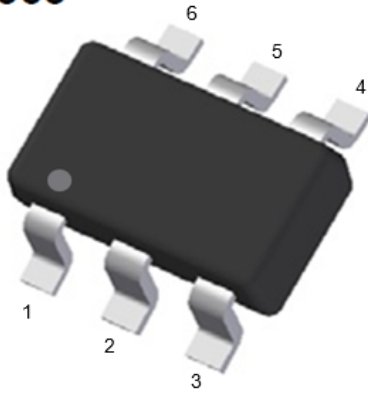


Dual NPN Small Signal Transistor

RoHS
COMPLIANT

SOT-363



- 1、 Emitter.
- 2、 base.
- 3、 collector
- 4、 Emitter
- 5、 base
- 6、 collector

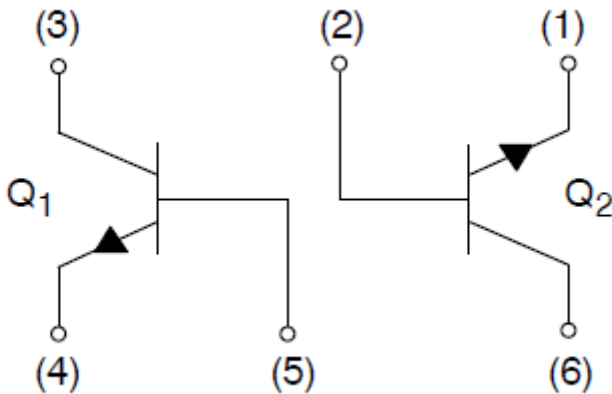
Features

- Epoxy meets UL-94 V-0 flammability rating
- Surface mount package ideally Suited for Automatic Insertion
- NPN

Mechanical Data

- **Package:** SOT-363
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** 4Ft

■Equivalent circuit



■Maximum Ratings (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Value
Collector-Base Voltage	VCBO	V	IC=10μA, IE=0	80
Collector-Emitter Voltage	VCEO	V	IC=10mA, IB=0	65
Emitter-Base Voltage	VEBO	V	IE=10μA, IC=0	6
Collector Current -Continuous	IC	mA		100
Total Device Dissipation	PC	mW		300
Junction Temperature	Tj	°C		150
Storage Temperature	TSTG	°C		-55 to +150

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

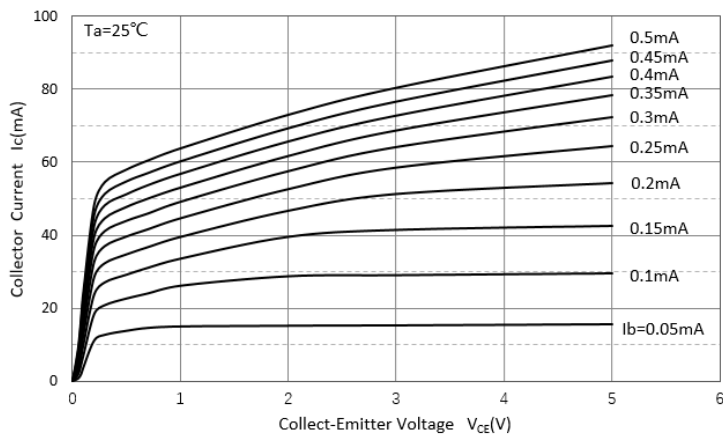
Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-base breakdown voltage	V _{CBO}	V	IC=10μA, IE=0	80		
Collector-emitter breakdown voltage	V _{CEO}	V	IC=10mA, IB=0	65		
Emitter-base breakdown voltage	V _{EBO}	V	IE=10μA, IC=0	6		
Collector cut-off current	I _{CBO}	nA	VCB=30V, IB=0			15
Collector cut-off current	I _{EBO}	nA	VEB=5V, IC=0			100
DC current gain	h _{FE}		VCE=5V, IC=2mA	200		450
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=10mA, IB=0.5mA			0.25
Collector-emitter saturation voltage	V _{CE(sat)}	V	IC=100mA, IB=5mA			0.65
Base-emitter saturation voltage	V _{BE(sat)*}	V	IC=10mA, IB=0.5mA		0.7	
Base-emitter saturation voltage	V _{BE(sat)*}	V	IC=100mA, IB=5mA		0.9	
Base-emitter Voltage	VBE	V	VCE=5V, IC=2mA	0.58	0.665	0.7
Transition frequency	f _T	MHz	VCE=5V, IC=10mA, f=100MHz		200	

■ Ordering Information (Example)

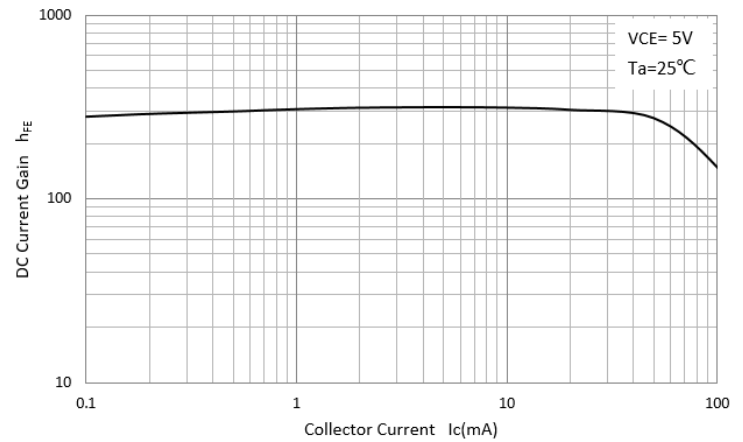
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BC846BS	F2	Approximate 0.009g	3000	30000	120000	7" reel

■ Characteristics (Typical)

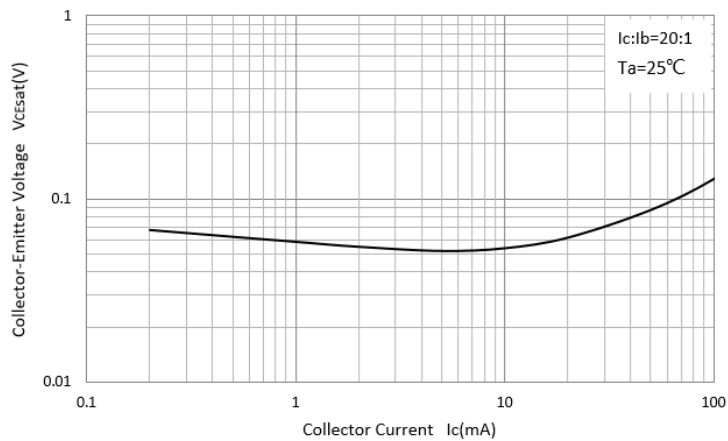
Static Characteristic



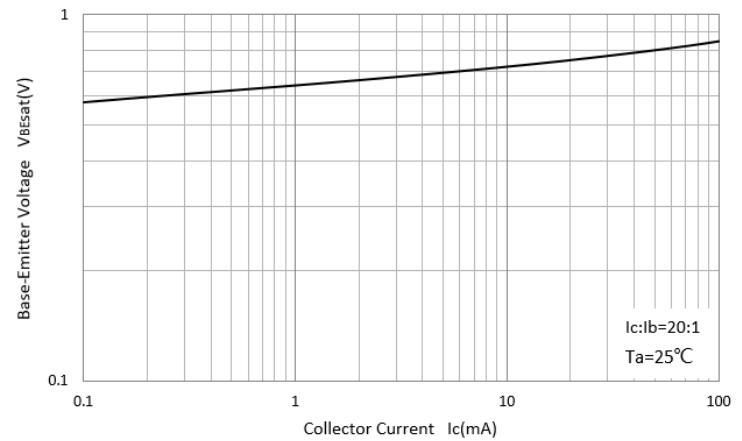
DC Current Gain



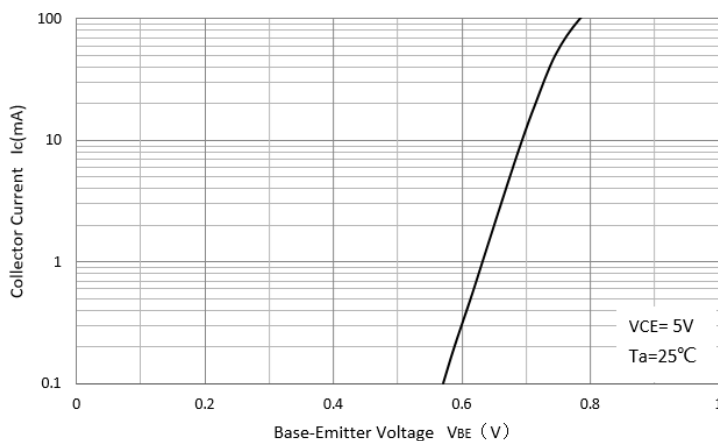
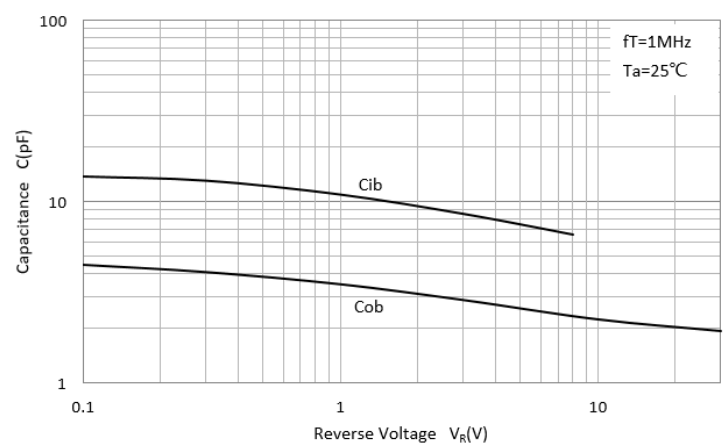
Collector-Emittor Saturation Voltage



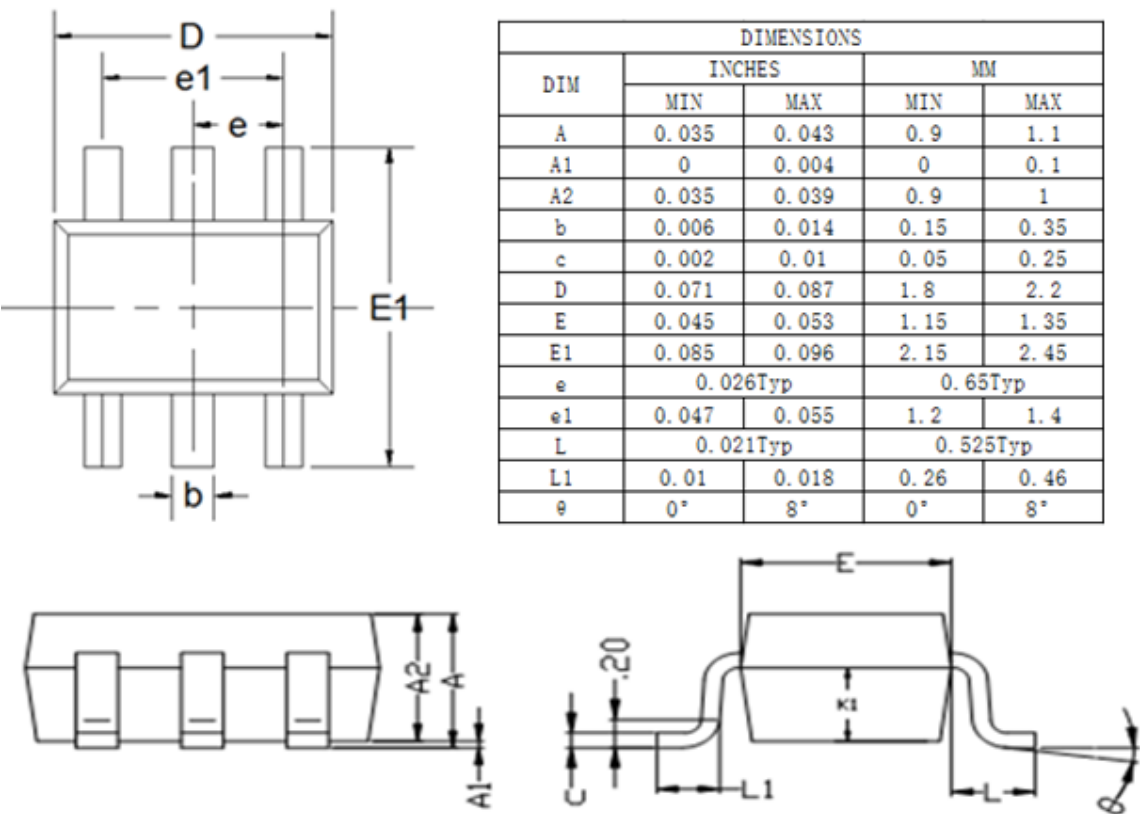
Base-Emittor Saturation Voltage



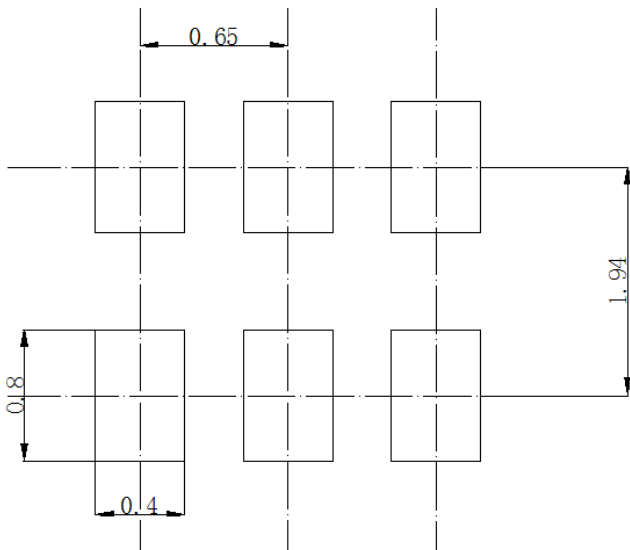
Base-Emittor On Voltage

 $C_{ob}/C_{ib}-V_{CB}/V_{EB}$ 

■SOT-363 Package Outline Dimensions



■SOT-363 Soldering Footprint



Unit: mm