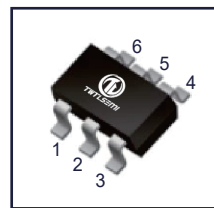


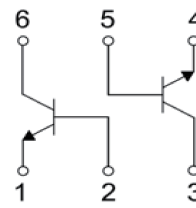


Features

- Two transistors in one package
- Reduces number of components and board space
- No mutual interference between the transistors



SOT-363



Equivalent Circuit

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
V_{CB0}	Collector-Base Voltage	80	V
V_{CE0}	Collector-Emitter Voltage	65	V
V_{EB0}	Emitter-Base Voltage	6	V
I_C	Collector Current	0.1	A
P_C	Collector Power Dissipation	0.2	W
T_J, T_{stg}	Operation Junction And Storage Temperature Range	$-55 \sim +150$	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)CB0}$	Collector-base breakdown voltage	$I_C=10\mu\text{A}, I_E=0$	80			V
$V_{(BR)CE0}$	Collector-emitter breakdown voltage	$I_C=10\text{mA}, I_B=0$	65			V
$V_{(BR)EB0}$	Emitter-base breakdown voltage	$I_E=10\mu\text{A}, I_C=0$	6			V
I_{CBO}	Collector cut-off current	$V_{CB}=30\text{V}, I_E=0$			15	nA
I_{EBO}	Emitter cut-off current	$V_{EB}=5\text{V}, I_C=0$			500	nA
h_{FE}	DC current gain	$V_{CE}=5\text{V}, I_C=2\text{mA}$	200		450	
$V_{CE(sat)}$	Collector-emitter saturation voltage	$I_C=10\text{mA}, I_B=0.5\text{mA}$			0.1	V
		$I_C=100\text{mA}, I_B=5\text{mA}$			0.3	V
$V_{BE(sat)}$	Base-emitter saturation voltage	$I_C=10\text{mA}, I_B=0.5\text{mA}$		0.77		V
f_T	Transition frequency	$V_{CB}=5\text{V}, I_E=10\text{mA}, f=100\text{MHz}$	100			MHz
C_{obo}	Base-emitter saturation voltage	$V_{CB}=10\text{V}, I_E=0\text{A}, f=1\text{MHz}$			1.5	pF

Ordering information

Product ID	Pack	Naming rule	Marking	h_{FE}	Qty(PCS)
BC846S	SOT-363	BC846S ↓ 产品名称 product name	4Ft	200-450	3000



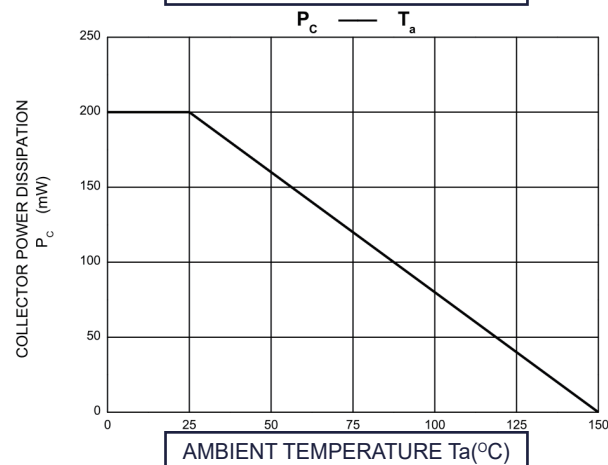
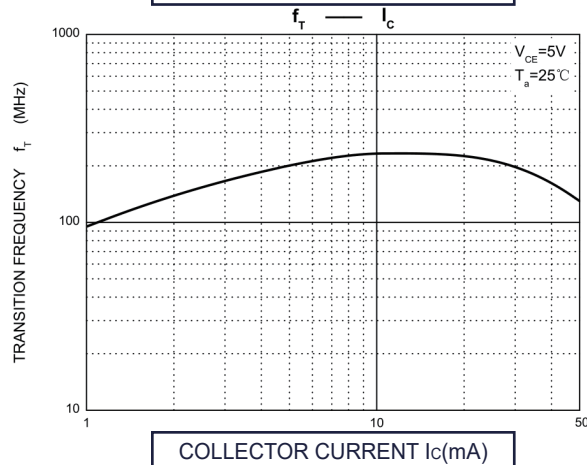
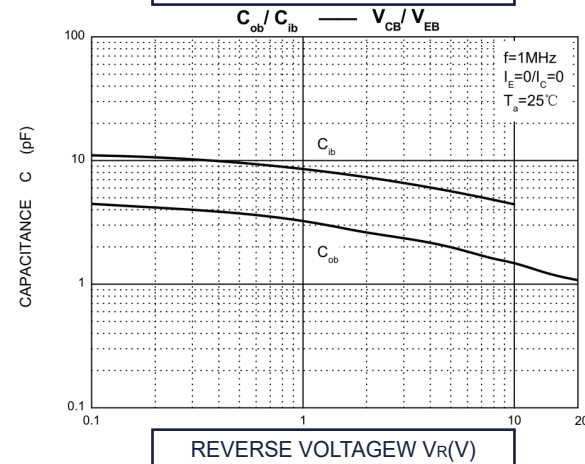
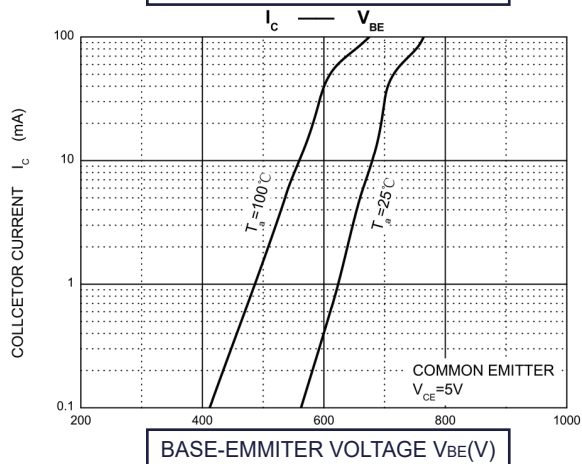
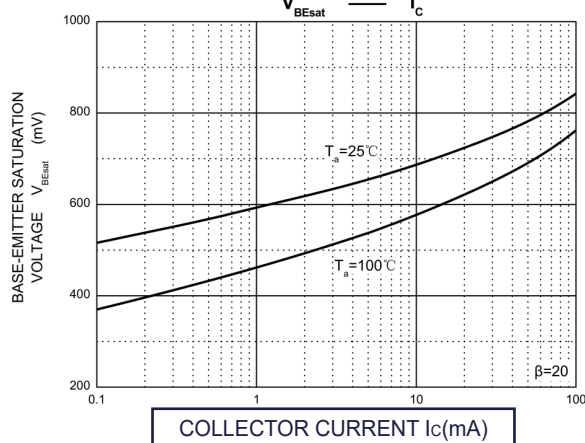
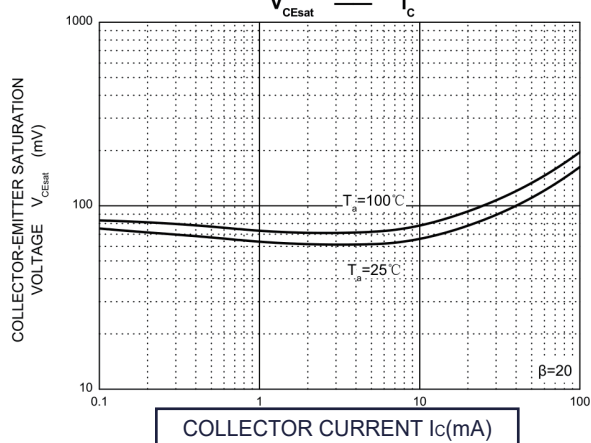
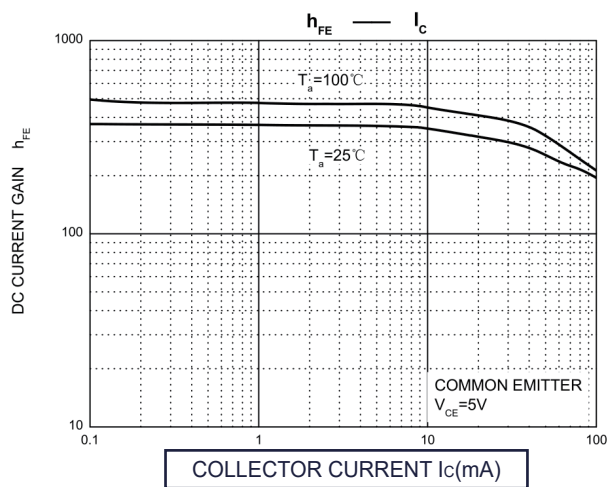
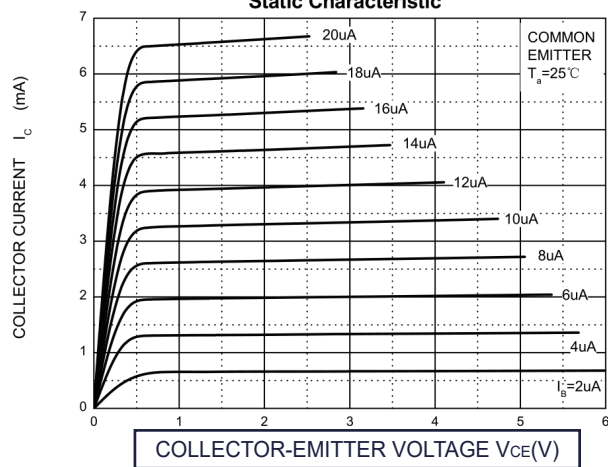
TWTLSEMI

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SOT-363 DUAL TRANSISTOR (NPN+NPN)

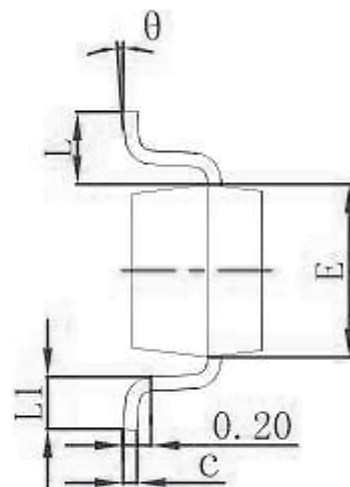
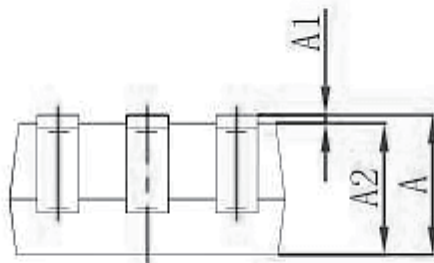
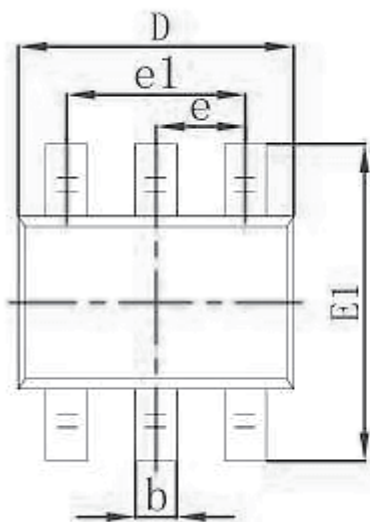
Typical Characteristics

Static Characteristic





SOT-363 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°