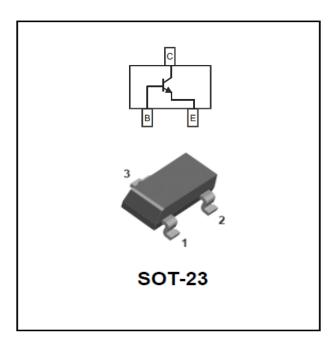




NPN Transistor



Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:

BC846A=1A; BC846B=1B; BC847A=1E; BC847B=1F; BC847C=1G; BC848A=1J; BC848B=1K: BC848C=1L

■ Maximum Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	
Vсво	Collector-Base Voltage BC846 BC847 BC848	80 50 30	V
VCEO	Collector-Emitter Voltage VCEO BC846 BC847 BC848		
VEBO	Emitter-Base Voltage		V
Ic	Collector Current –Continuous	0.1	А
PC	Collector Power Dissipation	200	mW
Roja	Thermal Resistance From Junction To Ambient	625	°C/W
Tj	Junction Temperature	150	$^{\circ}\! \mathbb{C}$
Tstg	Storage Temperature	- 55∼+150	$^{\circ}$



BC846/BC847/BC848



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

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage BC846 BC847 BC848	VCBO	IC= 10μA, IE=0	80 50 30		V
Collector-emitter breakdown voltage BC846 BC847 BC848	VCEO	IC= 10mA, IB=0	65 45 30		V
Emitter-base breakdown voltage	VEBO	IE= 10μΑ, IC=0	6		V
Collector cut-off current BC846 BC847 BC848	ICBO	VCB=70 V ,IE=0 VCB=50 V ,IE=0 VCB=30 V ,IE=0		0.1	μ А
Collector cut-off current BC846 BC847 BC848	ICEO	VCE=60 V ,IB=0 VCE=45 V ,IB=0 VCE=30 V ,IB=0		0.1	Αц
Emitter cut-off current	IEBO	VEB=5 V , IC=0		0.1	μА
DC current gain BC846A,847A,848A BC846B,847B,848B BC847C,BC848C	hFE	VCE= 5V, IC= 2mA	110 200 420	220 450 800	
Collector-emitter saturation voltage	VCE(sat)	IC=100mA, IB= 5mA		0.5	V
Base-emitter saturation voltage	VBE(sat)	IC=100mA, IB= 5mA		1.1	V
Transition frequency	fT	VCE= 5 V, IC= 10mA f=100MHz	100		MHz
Collector output capacitance	Cob	VCB=10V,f=1MHz		4.5	рF

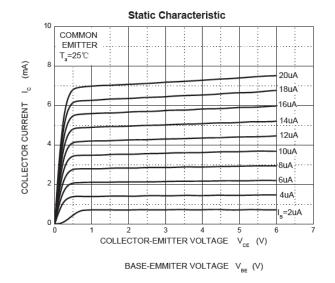
■ Ordering Information (Example)

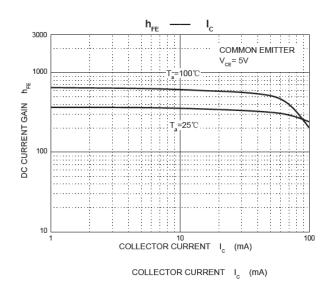
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BC846/BC847/BC848	F2	Approximate 0.008	3000	30000	120000	7" reel

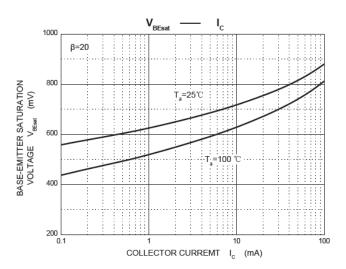


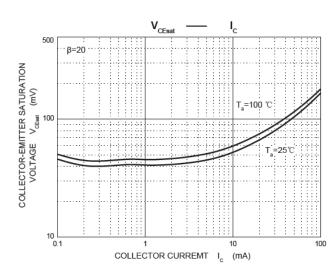


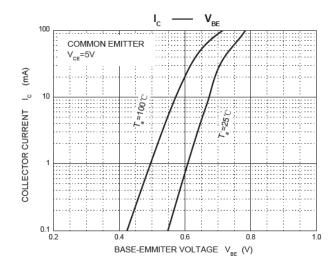
■ Characteristics(Typical)

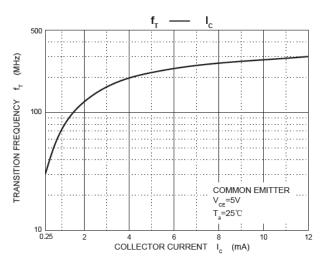






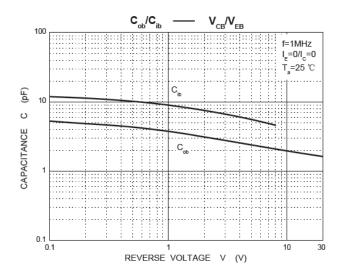


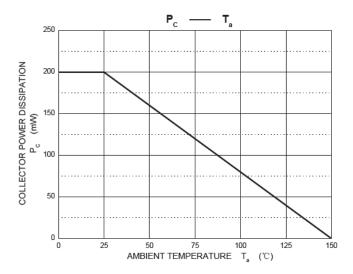




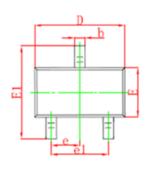


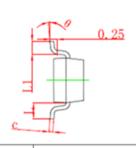


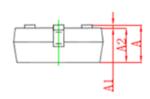




■SOT-23 Package Outline Dimensions







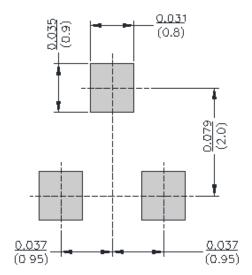
Dimensions In	Millimeters	Dimensions In Inches		
Min	Max	Min	Max	
0. 900	1. 150	0.035	0. 045	
0.000	0.100	0.000	0.004	
0. 900	1.050	0.035	0.041	
0.300	0.500	0.012	0.020	
0. 100	0. 200	0.004	0.008	
2.800	3.000	0. 110	0.118	
1. 200	1. 400	0.047	0.055	
2. 250	2. 550	0.089	0.100	
0. 950TYP		0. 037TYP		
1.800	2.000	0.071	0. 079	
0. 550REF		0. 022REF		
0.300	0. 500	0.012	0.020	
0°	8°	0°	8°	
	Min 0. 900 0. 000 0. 900 0. 300 0. 100 2. 800 1. 200 2. 250 0. 95 1. 800 0. 55	0.900 1.150 0.000 0.100 0.900 1.050 0.300 0.500 0.100 0.200 2.800 3.000 1.200 1.400 2.250 2.550 0.950TYP 1.800 2.000 0.500EF 0.300 0.500	Min Max Min 0.900 1.150 0.035 0.000 0.100 0.000 0.900 1.050 0.035 0.300 0.500 0.012 0.100 0.200 0.004 2.800 3.000 0.110 1.200 1.400 0.047 2.250 2.550 0.089 0.950TYP 0.03 1.800 2.000 0.071 0.550REF 0.02 0.300 0.500 0.012	







■SOT-23Suggested Pad Layout





BC846/BC847/BC848



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