

NPN Transistor

Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture Sensitivity Level 1
- High Conductance

• Surface Mount Package Ideally Suited for Automatic Insertion

Mechanical Data

• Package: SOT-323

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

- Terminals: Tin plated leads, solderable per
- J-STD-002 and JESD22-B102

• Marking:

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

Symbol	Parameter	Value	Unit
Vсво	Collector-Base Voltage BC846AW、BC846BW BC847AW、BCB47BW、BC847CW BC848AW、BC848BW、BC848CW	80 50 30	V
VCEO	Collector-Emitter Voltage BC846AW、BC846BW BC847AW、BC847BW、BC847CW BC848AW、BC848BW、BC848CW	65 45 30	V
Vebo	Emitter-Base Voltage	6	V
IC	Collector Current	0.1	А
Pc	Collector Power Dissipation	200	mW
Roja	Thermal Resistance From Junction To Ambient	625	°C/W
Tj	Junction Temperature	150	°C
Tstg	Storage Temperature	-55~+150	°C

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

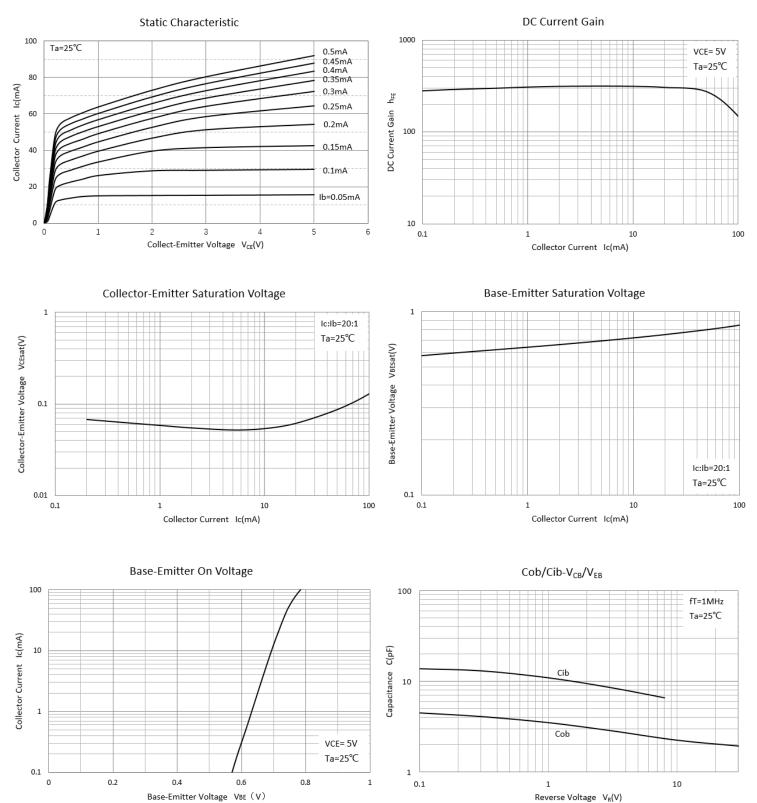
Parameter	Symbol	Test conditions	Min	Мах	Unit
Collector-base breakdown voltage BC846 BC847 BC848	V _{CBO}	IC= 10µA, IE=0	80 50 30		V
Collector-emitter breakdown voltage BC846 BC847 BC848	Vceo	IC= 10mA, IB=0	65 45 30		V
Emitter-base breakdown voltage	Vebo	IE= 10μΑ, IC=0	6		V
Collector-base cut-off current BC846 BC847 BC848	Ісво	VCB=70 V ,IE=0 VCB=50 V ,IE=0 VCB=30 V ,IE=0		0.1	μ Α
Collector-emitter cut-off current BC846 BC847 BC848	I _{CEO}	VCE=60 V ,IB=0 VCE=45 V ,IB=0 VCE=30 V ,IB=0		0.1	μ Α
Emitter-base cut-off current	I _{EBO}	VEB=5 V , IC=0		0.1	μA
DC current gain BC846AW,847AW,848AW BC846BW,847BW,848BW BC847CW,BC848CW	h _{FE}	VCE= 5V, IC= 2mA	110 200 420	220 450 800	
Collector-emitter saturation voltage	$V_{\text{CE}(\text{sat})}$	IC=100mA, IB= 5mA		0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	IC=100mA, IB= 5mA		1.1	V
Transition frequency	f⊤	VCE= 5 V, IC= 10mA f=100MHz	100		MHz
Collector-base output capacitance	Cob	VCB=10V,f=1MHz		4.5	pF

Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BC846AW THRU BC848CW	F2	Approximate 0.005	3000	30000	120000	7" reel

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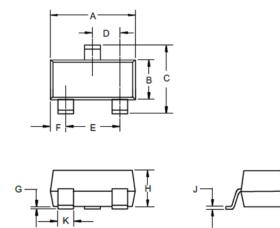
Characteristics(Typical)



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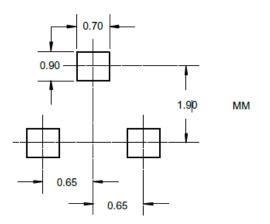


SOT-323 Package Outline Dimensions



DIMENSIONS						
	INC	HES	Μ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.071	.087	1.80	2.20		
В	.045	.053	1.15	1.35		
С	.083	.096	2.10	2.45		
D	.026 N	ominal	0.65Nom			
E	.047	.055	1.20	1.40		
F	.012	.016	.30	.40		
G	.000	.004	.000	.100		
Η	.035	.039	.90	1.00		
J	.004	.010	.100	.250		
K	.006	.016	.15	.40		

SOT-323 Soldering Footprint



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