BC846 SERIES BC847 SERIES BC848 SERIES

SURFACE MOUNT NPN SILICON TRANSISTOR





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR BC846, BC847 and BC848 Series types are NPN Silicon Transistors manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for general purpose switching and amplifier applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

Note: Reverse Lead Codes Available, Add "R" to the end of the Part # and Marking Code.

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL	BC848	BC847	BC846	UNITS
Collector-Base Voltage	VCBO	30	50	80	V
Collector-Emitter Voltage	VCEO	30	45	65	V
Emitter-Base Voltage	VEBO		5.0		V
Continuous Collector Current	I _C		100		mA
Peak Collector Current	ICM		200		mA
Peak Base Current	IBM		200		mA
Power Dissipation	PD		350		mW
Operating and Storage Junction Temperature	TJ, Tstg		-65 to +150		°C
Thermal Resistance	ΘJA		357		°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
	V _{CB} =30V		15	nA
ICBO	V _{CB} =30V, T _A =150°C		5.0	μA
СВО	00 //			•
IEBO	V _{EB} =5.0V	00	100	nA
BVCBO	I _C =10μA (BC848)	30		V
	I _C =10μΑ (BC847)	50		V
вv _{сво}	I _C =10μΑ (BC846)	80		V
BVCEO	I _C =10mA (BC848)	30		V
BVCEO	I _C =10mA (BC847)	45		V
BVCEO	I _C =10mA (BC846)	65		V
BVEBO	I _E =10µA	5.0		V
V _{CE(SAT)}	I _C =10mA, I _B =0.5mA		0.25	V
VCE(SAT)	I _C =100mA, I _B =5.0mA		0.60	V
V _{BE(ON)}	$I_{C}=2.0$ mA, $V_{CF}=5.0$ V	0.58	0.70	V
	$I_{C}=10mA, V_{CF}=5.0V$	0.00	0.77	v
V _{BE} (ON) f _T	V_{CF} =5.0V, I _C =10mA, f=100MHz	100	0.11	MHz
NF		100		
INF	$V_{CE}=5.0V, I_{C}=200\mu A,$		10	
	R _S =2.0KΩ, f=1.0KHz, BW=200Hz		10	dB
		D00404	DOGIOD	
		BC846A	BC846B	500/50
		BC847A	BC847B	BC847C
		<u>BC848A</u>	<u>BC848B</u>	BC848C
		MIN MAX	MIN MAX	MIN MAX

110 220

200

450

h_{FE}

 V_{CE} =5.0V, I_C=2.0mA

R1 (20-November 2009)

800

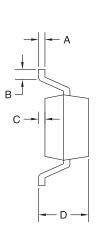
420

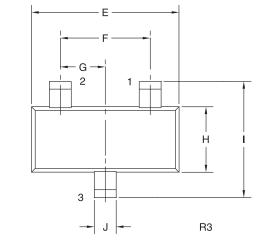




SURFACE MOUNT NPN SILICON TRANSISTOR

SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

STANDARD1) BASE2) EMITTER3) COLLECTOR	* REVERSE EMITTER BASE COLLECTOR
DEVICE	MARKING CODE
BC846A	1A
BC846B	1B
BC847A	1E
BC847B	1F
BC847C	1G
BC848A	1J
BC848B	1K
BC848C	1L

* Reverse Lead Codes Available, Add "R" to the end of the Part # and Marking Code.

DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
А	0.003	0.007	0.08	0.18	
В	0.006	-	0.15	-	
С	-	0.005	-	0.13	
D	0.035	0.043	0.89	1.09	
E	0.110	0.120	2.80	3.05	
F	0.075		1.90		
G	0.037		0.95		
Н	0.047	0.055	1.19	1.40	
	0.083	0.098	2.10	2.49	
J	0.014	0.020	0.35	0.50	
SOT-23 (REV: R3)					

SOT-23 (REV: R3)

R1 (20-November 2009)

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