



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates
- RoHS Compliant. See ordering information) Low current (max. 100mA)
- Low voltage (max. 65V)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

- Operating temperature : -65°C to +150°C
- Storage temperature : -65°C to +150°C
- Thermal resistance from junction to ambient*: 625K/W
- Marking: BC846AW---1A ; BC846BW---1B BC847AW---1E ; BC847BW---1F ; BC847CW---1G BC848AW---1JS/1J ; BC848BW---1KS/1K ; BC848CW---1LS/1L

Electrical Characteristics $@25^{\circ}$ C Unless Otherwise Specified

			-	
Symbol	Parameter	Min	Max	Units

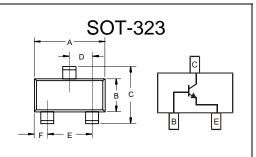
OFF CHARACTERISTICS

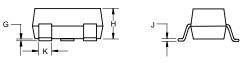
V _{(BR)CBO}	Collector-Base Breakdown Voltage		Vdc
	(I _C =10uAdc, I⊧=0)		
	BC846AW/BW	 80	
	BC847AW/BW/CW	 50	
	BC848AW/BW/CW	 30	
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage		Vdc
. ,	(I _C =10mAdc, I _B =0)		
	BC846AW/BW	 65	
	BC847AW/BW/CW	 45	
	BC848AW/BW/CW	 30	
V _{(BR)EBO}	Emitter-Base Breakdown Voltage		Vdc
	$(I_E=1\mu Adc, I_C=0)$		
	BC846AW/BW, BC847AW/BW/CW	 6	
	BC848AW/BW/CW	 5	
lc	Collector Current (DC)	 100	mAdc
I _{CM}	Peak Collector Current	 200	mAdc
I _{BM}	Peak Base Current	 200	mAdc

* Transistor mounted on an FR4 printed-circuit board

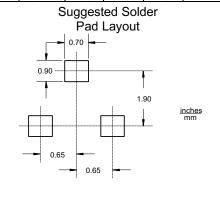








	DIMENSIONS					
	INC	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE	
А	.071	.087	1.80	2.20		
В	.045	.053	1.15	1.35		
С	.079	.087	2.00	2.20		
D	.026 Nominal		0.65Nominal			
E	.047	.055	1.20	1.40		
F	.012	.016	.30	.40		
G	.000	.004	.000	.100		
Н	.035	.039	.90	1.00		
J	.004	.010	.100	.250		
K	.012	.016	.30	.40		



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ON CHARACTERISTICS

Symbol	Parameter	Min	Тур	Max	Units
I _{CBO}	Collector-base Cut-off Current				
	(I _{CE} =0, V _{CB} =30Vdc)			15	nA
	(I _{CE} =0, V _{CB} =30Vdc, T _j =150°C)			5	μA
ICEO	Emitter-base Cut-off Current				
	(I _C =0, V _{EB} =5Vdc)			100	nA
V _{CE(sat)}	Collector-Emitter Saturation Voltage				
	(I _C =10mAdc, I _B =0.5mAdc)		90	250	mVdc
	(I _C =100mAdc, I _B =5mAdc*)		200	600	mVdc
V _{BE(sat)}	Base-Emitter Saturation Voltage				
	(I _C =10mAdc,I _B =0.5mAdc)		700		mVdc
	(I _C =100mAdc, I _B =5mAdc*)		900		mVdc
h _{FE}	DC Current Gain (I _C =10µA; V _{CE} =5V)				
	BC846AW; BC847AW;BC848AW		90		
	BC846BW; BC847BW;BC848BW		150		
	BC847CW;BC848CW		270		
	DC Current Gain (I _c =2mA; V _{CE} =5V)				
	BC846AW; BC847AW;BC848AW	110	180	220	
	BC846BW; BC847BW;BC848BW	200	290	450	
	BC847CW;BC848CW	420	520	800	
V _{BE}	Base-emitter Voltage				
	$(I_c=2mAdc, V_{cE}=5V)$	580	660	700	mVdc
	(I _C =10mAdc,V _{CE} =5V)			770	mVdc
Сс	Collector Capacitance (V _{CB} =10V; I _E =I _e =0; f=1MHz)			4.5	pF
f⊤	Transition Frequency (V _{CE} =5V; I _C =10mA; f=100MHz)	100			MHz
F	Noise Figure ($V_{CE}=5V$; $I_C=200\mu$ A; f=1KHz; B=200Hz; $R_S=2K\Omega$)			10	dB

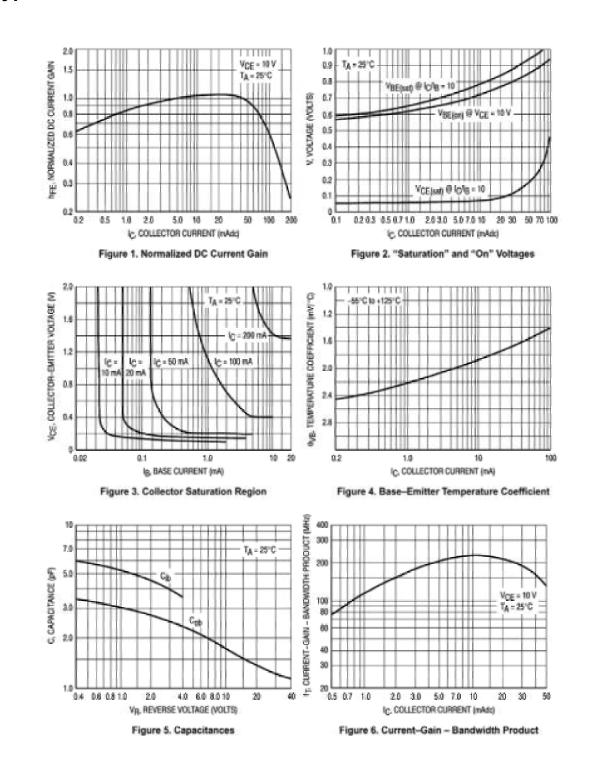
* Pulse test: $t_P \leq 300 \mu s; \delta \leq 0.02$



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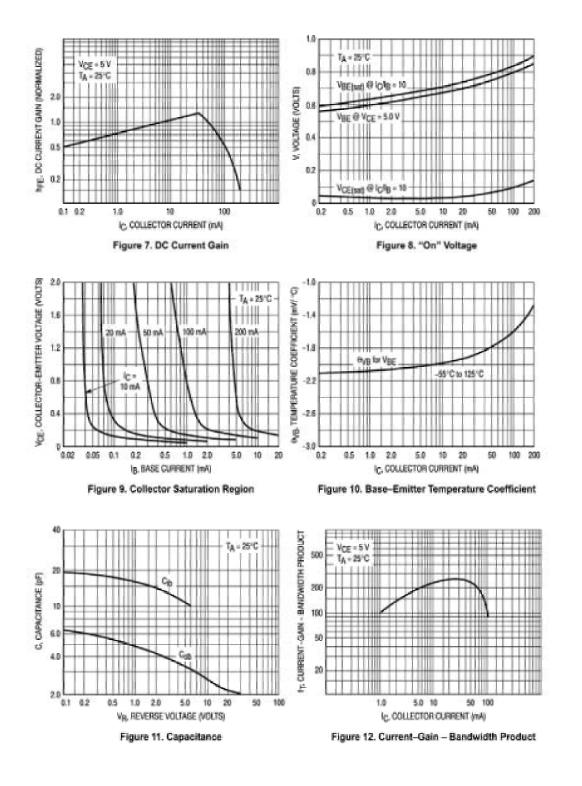


Typical Characteristics

846AW, BW; BC847AW, BW, CW; BC848AW, BW, CW

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Revision: A



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

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