

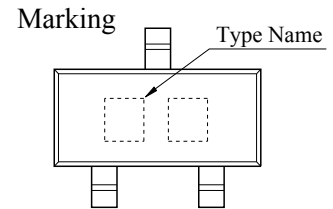
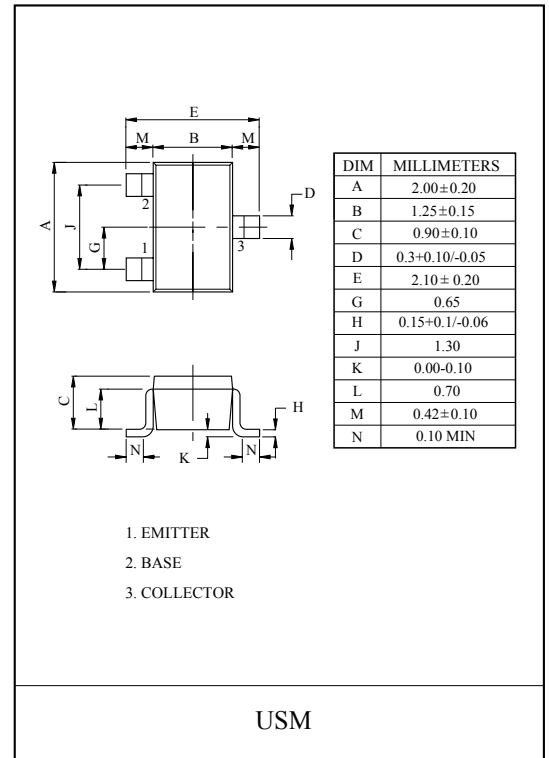
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION .

FEATURES

- High Voltage : BC846W $V_{CE0}=65V$.
- For Complementary With PNP Type BC856W/857W/858W.

MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	BC846W	80	V
	BC847W	50	
	BC848W	30	
Collector-Emitter Voltage	BC846W	65	V
	BC847W	45	
	BC848W	30	
Emitter-Base Voltage	BC846W	6	V
	BC847W	6	
	BC848W	5	
Collector Current	I_C	100	mA
Emitter Current	I_E	-100	mA
Collector Power Dissipation	P_C	100	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C



MARK SPEC

TYPE	BC846W-A	BC846W-B	BC847W-A	BC847W-B	BC847W-C	BC848W-A	BC848W-B	BC848W-C
MARK	1A	1B	1E	1F	1G	1J	1K	1L

BC846W/7W/8W

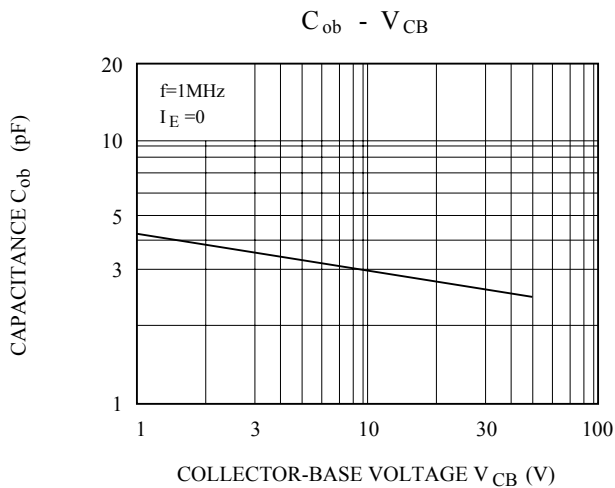
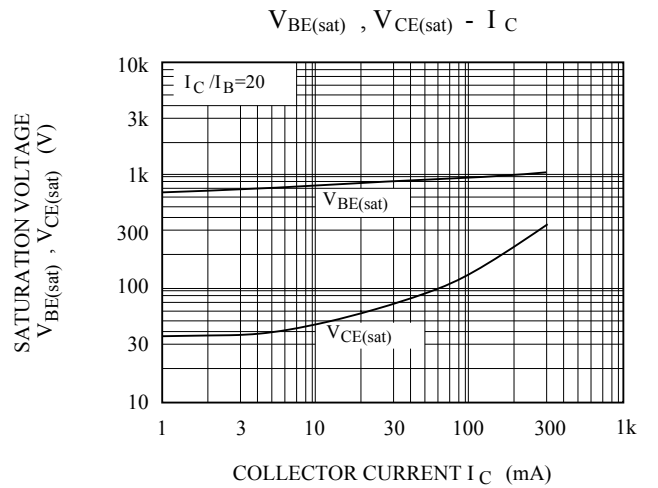
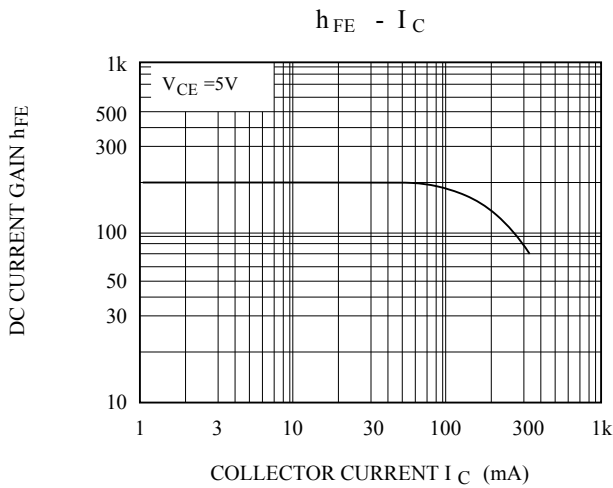
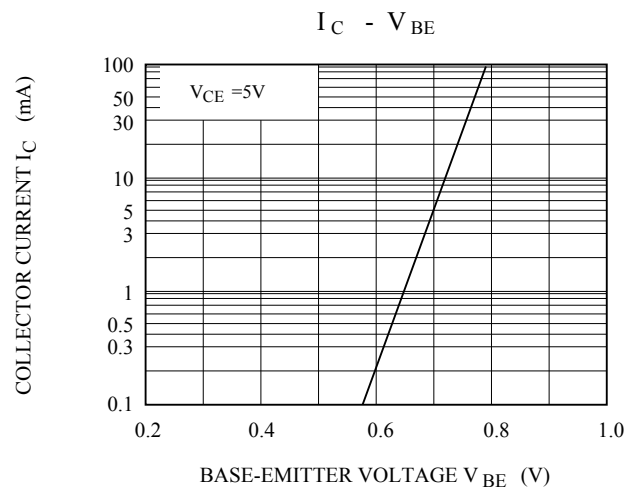
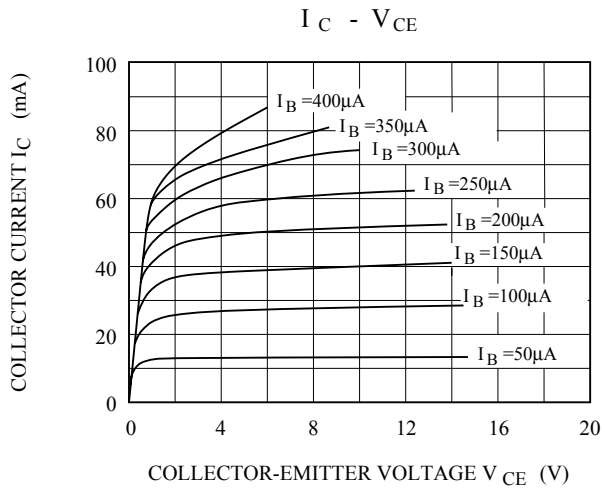
ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB}=30V, I_E=0$	-	-	15	nA
DC Current Gain (Note)	BC846W	h_{FE}	$V_{CE}=5V, I_C=2mA$	110	-	450	
	BC847W			110	-	800	
	BC848W			110	-	800	
Collector-Emitter Saturation Voltage		$V_{CE(sat)1}$	$I_C=10mA, I_B=0.5mA$	-	0.09	0.25	V
		$V_{CE(sat)2}$	$I_C=100mA, I_B=5mA$	-	0.2	0.6	
Base-Emitter Saturation Voltage		$V_{BE(sat)1}$	$I_C=10mA, I_B=0.5mA$	-	0.7	-	V
		$V_{BE(sat)2}$	$I_C=100mA, I_B=5mA$	-	0.9	-	
Base-Emitter Voltage		$V_{BE(ON)1}$	$V_{CE}=5V, I_C=2mA$	0.58	-	0.7	V
		$V_{BE(ON)2}$	$V_{CE}=5V, I_C=10mA$	-	-	0.75	V
Transition Frequency		f_T	$V_{CE}=5V, I_C=10mA, f=100MHz$	-	300	-	MHz
Collector Output Capacitance		C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	-	2.5	4.5	pF
Noise Figure		NF	$V_{CE}=6V, I_C=0.1mA$ $R_g=10k\Omega, f=1kHz$	-	1.0	10	dB

NOTE : According to the value of h_{FE} the BC846W, BC847W, BC848W are classified as follows.

CLASSIFICATION		A	B	C
h_{FE}	BC846W	110 ~ 220	200 ~ 450	-
	BC847W	110 ~ 220	200 ~ 450	420 ~ 800
	BC848W	110 ~ 220	200 ~ 450	420 ~ 800

BC846W/7W/8W





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