UMW

BC846A, B TRANSISTOR (NPN)
BC847A, B, C
BC848A, B, C

SOT-23

1. BASE
2. EMITTER
3. COLLECTOR

FEATURES
- Ideally suited for automatic insertion
- For Switching and AF Amplifier Applications
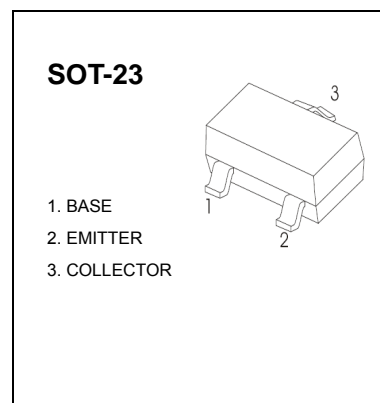
MAXIMUM RATINGS (T$_a$=25℃ unless otherwise noted)

Symbol	Parameter		Value	Unit
V$_{CBO}$	Collector-Base Voltage			V
		BC846	80	
		BC847	50	
		BC848	30	
V$_{CEO}$	Collector-Emitter Voltage			V
		BC846	65	
		BC847	45	
		BC848	30	
V$_{EBO}$	Emitter-Base Voltage		6	V
I$_C$	Collector Current –Continuous		0.1	A
P$_{C*}$	Collector Power Dissipation		200	mW
T$_J$	Junction Temperature		150	℃
T$_{stg}$	Storage Temperature		-65-150	℃

DEVICE MARKING

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

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter		Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	BC846	V_{CBO}	I_C= 10μA, I_E=0	80			V
	BC847			50			
	BC848			30			
Collector-emitter breakdown voltage	BC846	V_{CEO}	I_C= 10mA, I_B=0	65			V
	BC847			45			
	BC848			30			
Emitter-base breakdown voltage		V_{EBO}	I_E= 10μA, I_C=0	6			V
Collector cut-off current	BC846	I_{CBO}	V_{CB}=70 V , I_E=0			0.1	μA
	BC847		V_{CB}=50 V , I_E=0				
	BC848		V_{CB}=30 V , I_E=0				
Collector cut-off current	BC846	I_{CEO}	V_{CE}=60 V , I_B=0			0.1	μA
	BC847		V_{CE}=45 V , I_B=0				
	BC848		V_{CE}=30 V , I_B=0				
Emitter cut-off current		I_{EBO}	V_{EB}=5 V , I_C=0			0.1	μA
DC current gain	BC846A,847A,848A	h_{FE}	V_{CE}= 5V, I_C= 2mA	110		220	
	BC846B,847B,848B			200		450	
	BC847C,BC848C			420		800	
Collector-emitter saturation voltage		$V_{CE(sat)}$	I_C=100mA, I_B= 5mA			0.5	V
Base-emitter saturation voltage		$V_{BE(sat)}$	I_C=100mA, I_B= 5mA			1.1	V
Transition frequency		f_T	V_{CE}= 5 V, I_C= 10mA f=100MHz	100			MHz
Collector output capacitance		C_{ob}	V_{CB}=10V,f=1MHz			4.5	pF

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