

自主封測 品質把控 售後保障

WEB

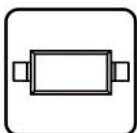
WWW.TDSEMIC.COM



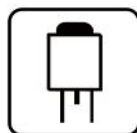
電源管理



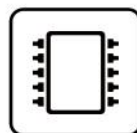
顯示驅動



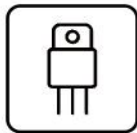
二三極管



LDO穩壓器



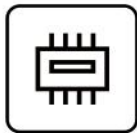
觸摸芯片



MOS管



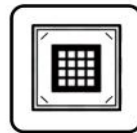
運算放大器



存儲芯片



MCU



串口通信

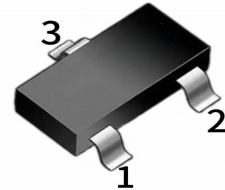
BC847B 1F-TD (0.26)

產品規格說明書

FEATURES:

- ※ Ideaiiy suited for automatic insertion
- ※ For switching and AF amplifier applications

SOT-23
1.BASE
2.EMITTER
3.COLLECTOR



MARKING:

BC846A=1A; BC846B=1B

BC847A=1E; BC847B=1F; BC847C=1G

BC848A=1J; BC848B=1K; BC848C=1L

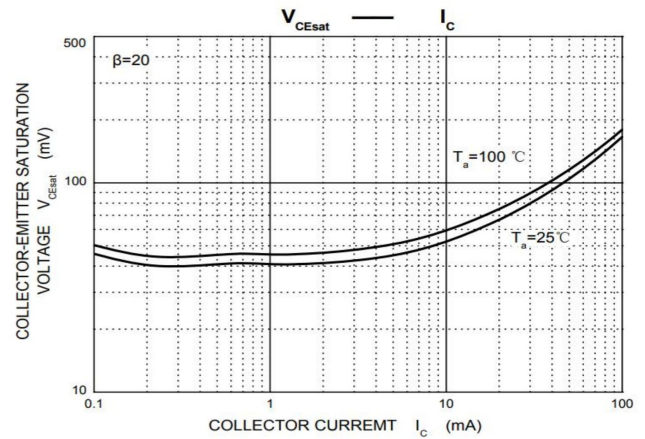
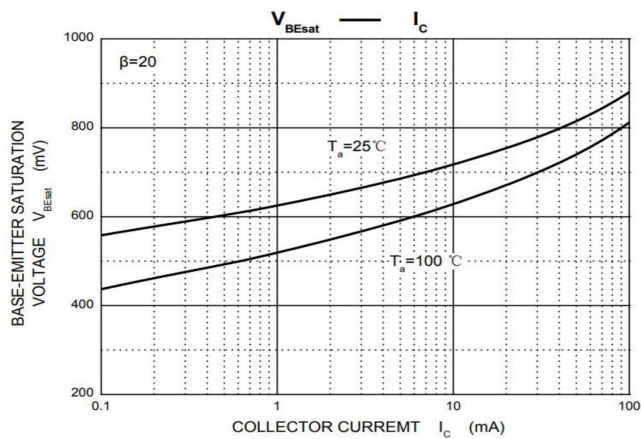
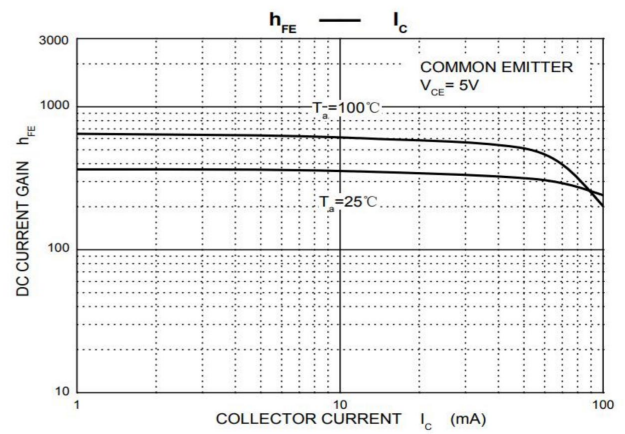
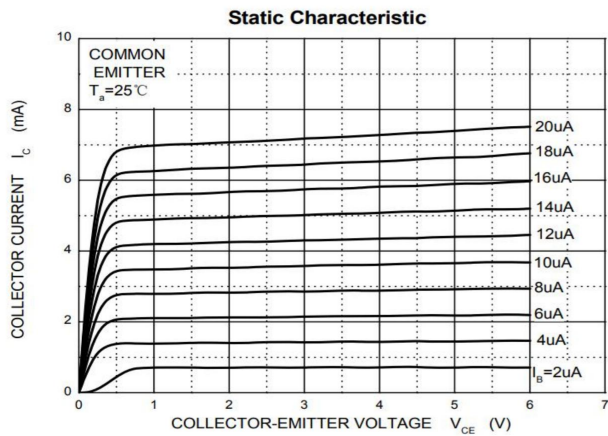
MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	VCBO	80	V
BC846		50	
BC847		30	
BC848			
Collector-Emitter Voltage	VCEO	65	V
BC846		45	
BC847		30	
BC848			
Emitter-Base Voltage	VEBO	6	V
Collector Current	IC	0.1	A
Collector Power Dissipation	PC	200	mW
Thermal Resistance From Junction To Ambient	RθJA	625	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55~+150	°C

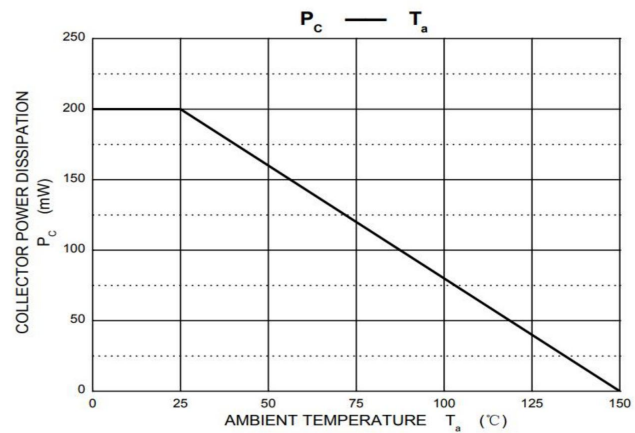
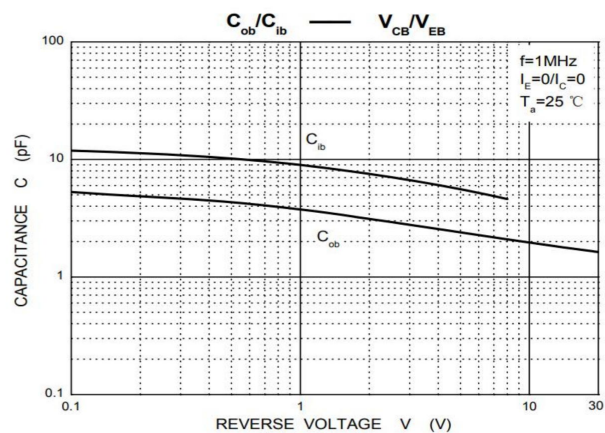
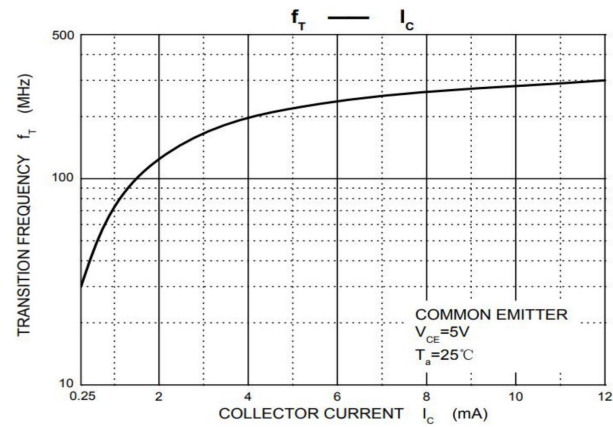
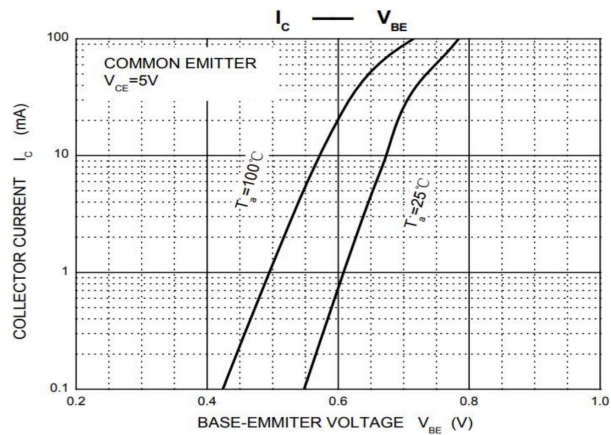
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC= 10μA, IE=0	80			V
BC846			50			
BC847			30			
BC848						
Collector-emitter breakdown voltage	V(BR)CEO	IC= 10mA, IB=0	65			V
BC846			45			
BC847			30			
BC848						
Emitter-base breakdown voltage	V(BR)EBO	IE=-1μA, IC=0	6			V
Collector cut-off current	ICBO	VCB=70 V , IE=0 VCB=50 V , IE=0 VCB=30 V , IE=0			-0.1	μA
BC856						
BC857						
BC858						
Emitter cut-off current	IEBO	VEB=-5V , IC=0			-0.1	μA
DC current gain	hFE	VCE=5V, IC= 2mA	110		220	
BC846A; 847A; 848A			200		450	
BC846B; 847B; 848B			420		800	
BC847C; BC848C						
Collector-emitter saturation voltage	VCE(sat)	IC=100 mA, IB= 5mA			0.5	V
Base-emitter saturation voltage	VBE(sat)	IC=100 mA, IB= 5mA			1.1	V
Transition frequency	fT	VCE=5V, IC= 10mA f=100MHz	100			MHz
Collector Current Capacitance	Cob	VCE=-10V, f=1MHz			4.5	pF

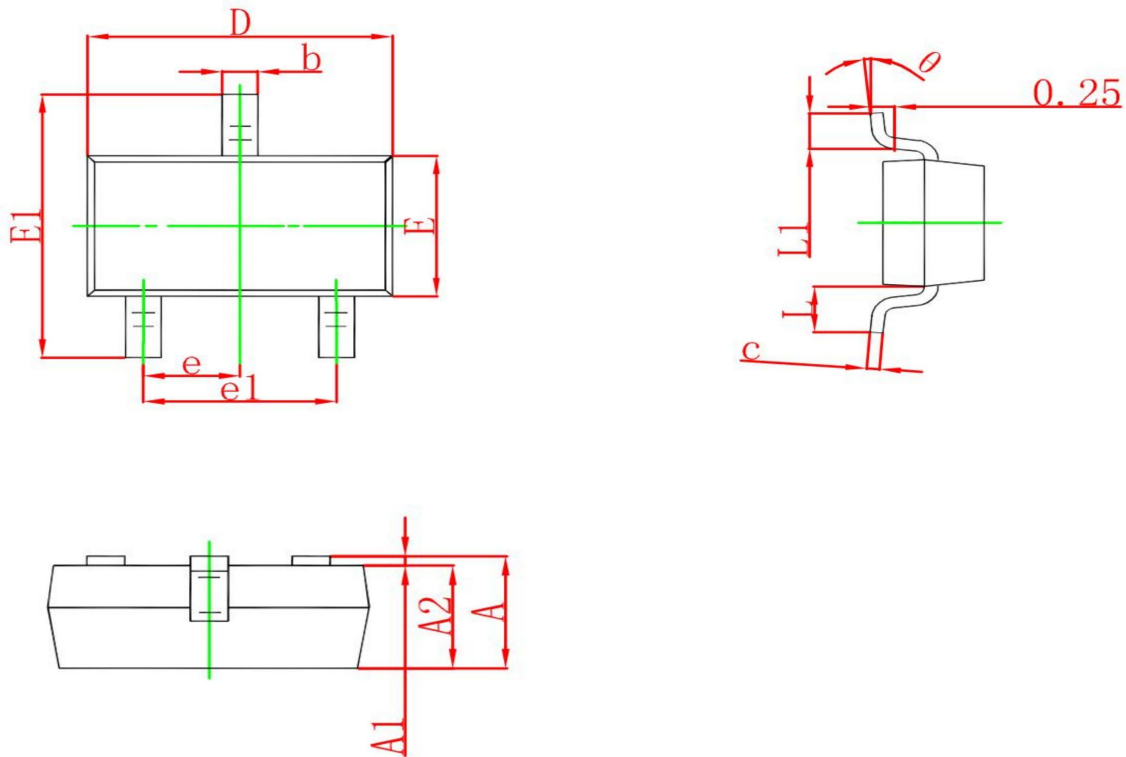
Typical Electrical and Thermal Characteristics



Typical Electrical and Thermal Characteristics



SOT-23 Package Outline Dimesions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°