

自主封測 品質把控 售後保障

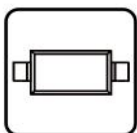
WEB | WWW.TDSEMIC.COM



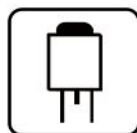
電源管理



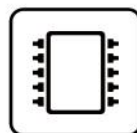
顯示驅動



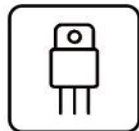
二三極管



LDO穩壓器



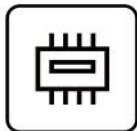
觸摸芯片



MOS管



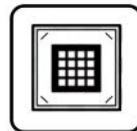
運算放大器



存儲芯片



MCU



串口通信

BC817-40 6C-TD (0.35)

產品規格說明書

FEATURES:

- For general AF applications
- High collector current
- High current gain
- Low collector-emitter saturation voltage
- Complementary types: BC807 (PNP)

MARKING: 6C

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

Parameter	Symbol	Value	Unit
Collector-Base Voltage	VCBO	50	V
Collector-Emitter Voltage	VCEO	45	V
Emitter-Base Voltage	VEBO	5	V
Collector Current	IC	500	mA
Collector Power Dissipation	PC	300	mW
Thermal Resistance From Junction To Ambient	RθJA	417	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55~+150	°C

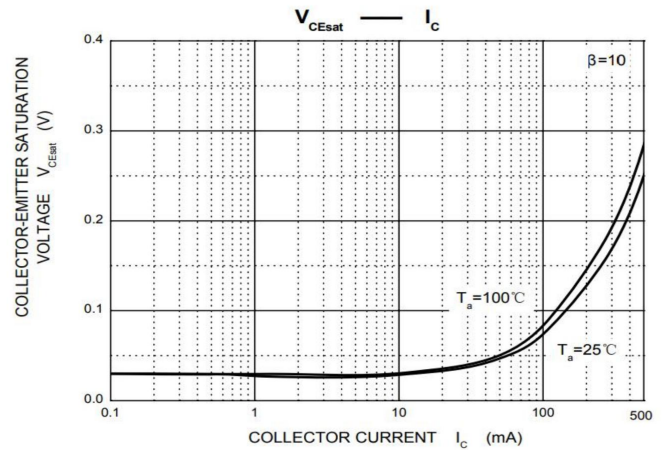
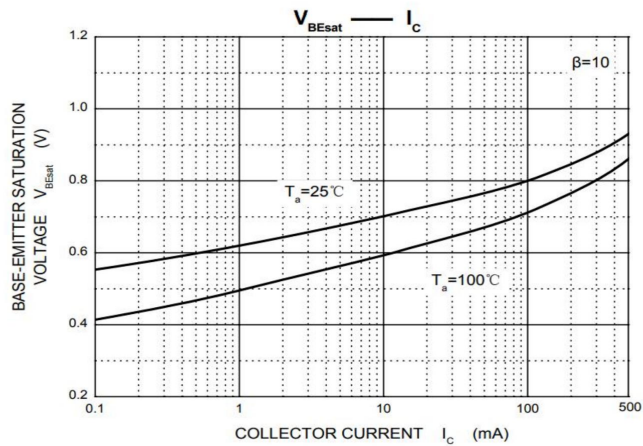
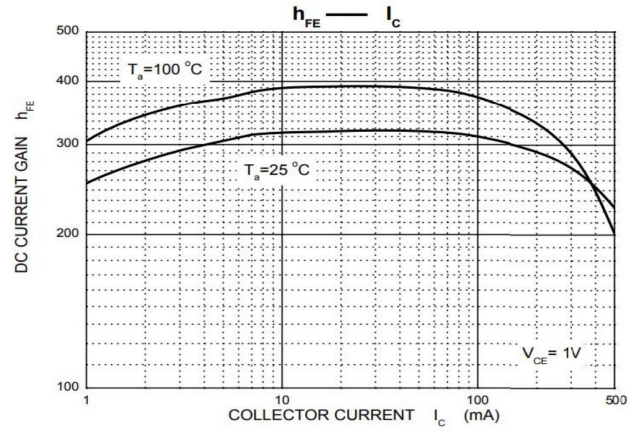
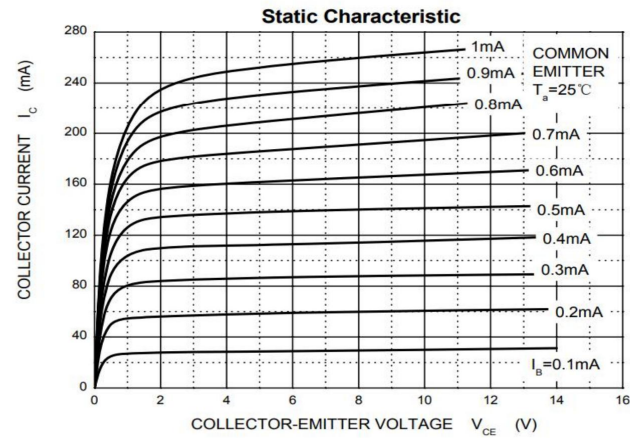
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC= 10μA, IE=0	50			V
Collector-emitter breakdown voltage	V(BR)CEO	IC= 1mA, IB=0	45			V
Emitter-base breakdown voltage	V(BR)EBO	IE=10μA, IC=0	5			V
Collector cut-off current	ICBO	VCB= 45 V , IE=0			0.1	μA
Emitter cut-off current	IEBO	VEB= 5V , IC=0			0.1	μA
DC current gain	hFE	VCE= 1V, IC= 100mA	100		600	
	hFE	VCE= 1V, IC= 500mA	40			
Collector-emitter saturation voltage	VCE(sat)	IC= 500mA, IB= 50mA			0.65	V
Base-emitter saturation voltage	VBE(sat)	IC= 500 mA, IB= 50mA			1.2	V
Transition frequency	fT	VCE= 5V, IC= 10mA f=100MHz	100			MHz
Collector Output Capacitance	Cob	VCB=10V, IE=0, f=1MHz		10		pF

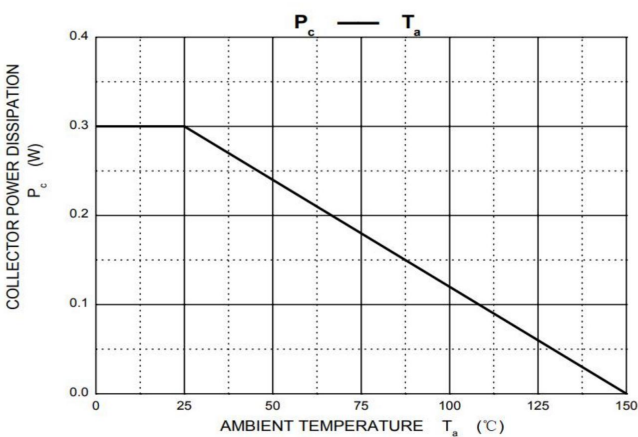
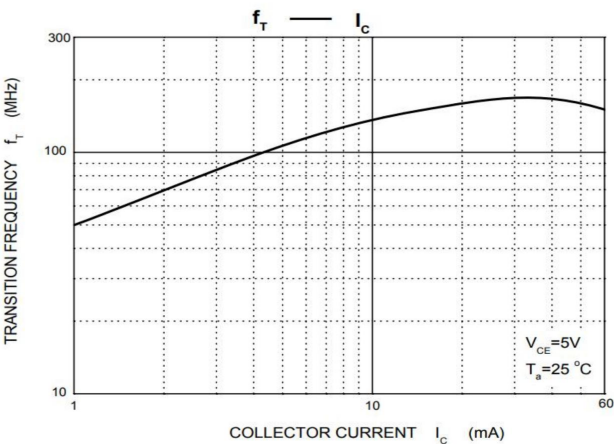
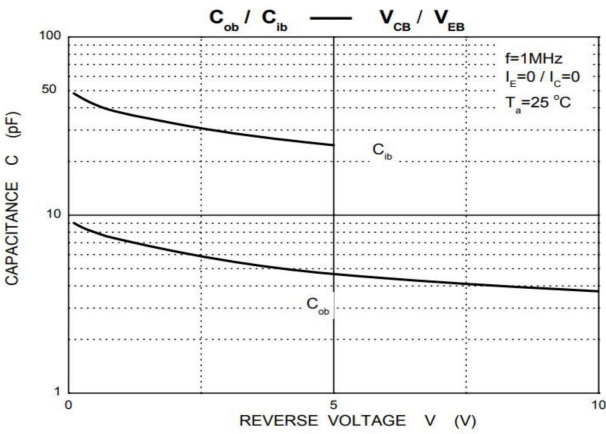
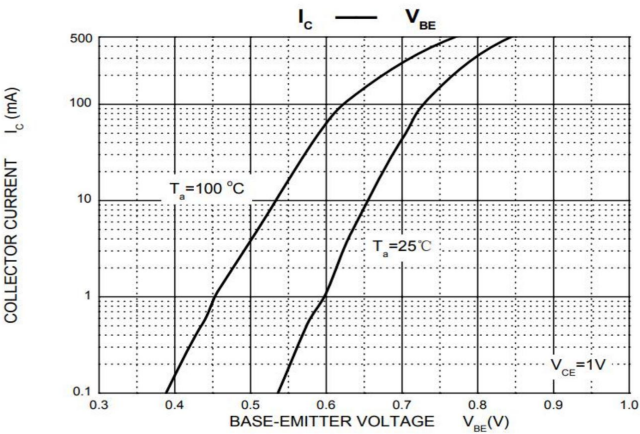
CLASSIFICATION OF hFE

Rank	BC817-16	BC817-25	BC817-40
Range	100-250	160-400	250-600
Marking	6A	6B	6C

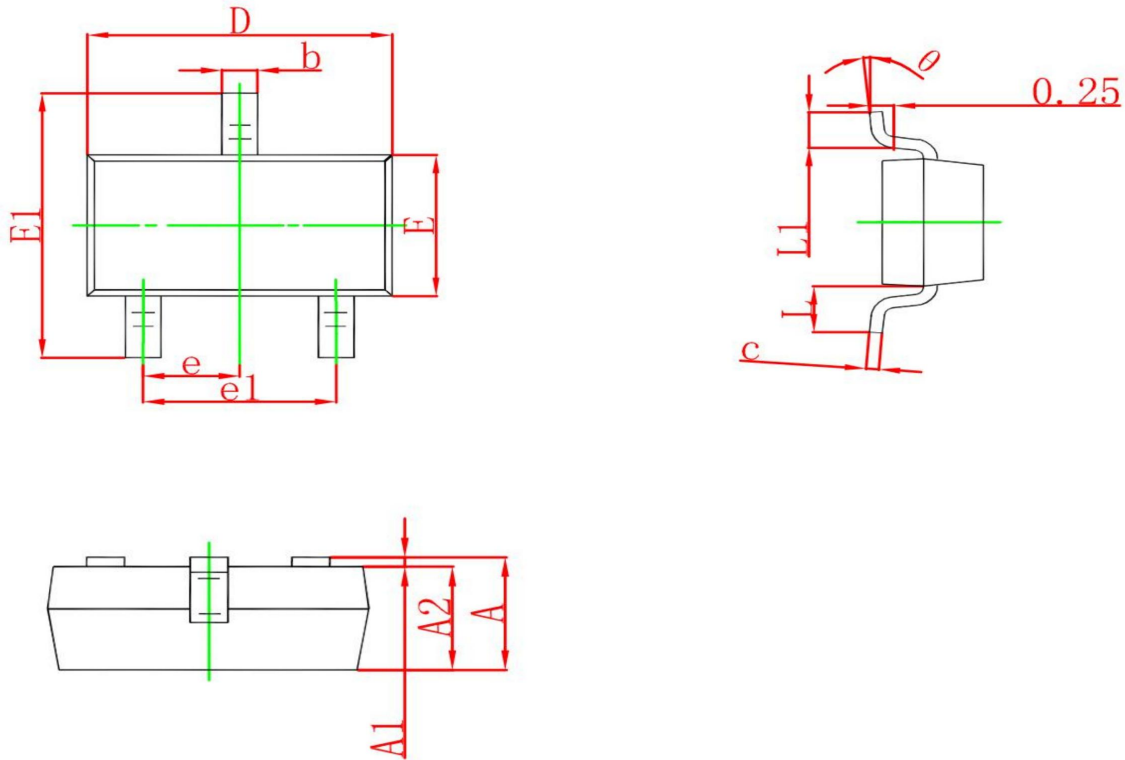
Typical Electrical and Thermal Characteristics



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°