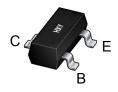


FEATURES

Collector Current: I_C=0.5A

• Power Dissipation of 300mw

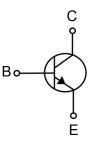


SOT-23

Package Marking and Ordering Information

Product ID	Pack	Qty(PCS)	
BC817-16/25/40	SOT-23	3000	

Marking				
BC87-16	BC87-25	BC 8 7-40		
100-250	160-400	250-600		
6A	6B	6C		



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

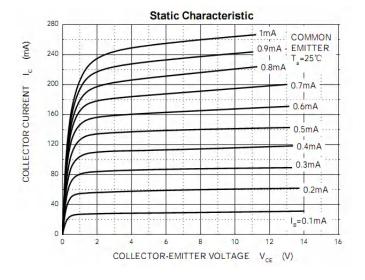
Parameter	Symbol	Limit	Unit
Collector-Base Voltage	V _{CBO}	50	V
Collector-Emitter Voltage	V _{CEO}	45	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _c	500	mA
Collector Power Dissipation	P _c	300	mW
Thermal Resistance From Junction To Ambient	R _{OJA}	417	°C/W
Junction Temperature	T _j	150	℃
Storage Temperature	T _{stg}	-55∼+150	℃

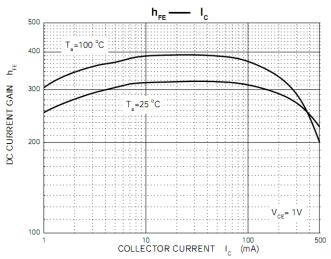


ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

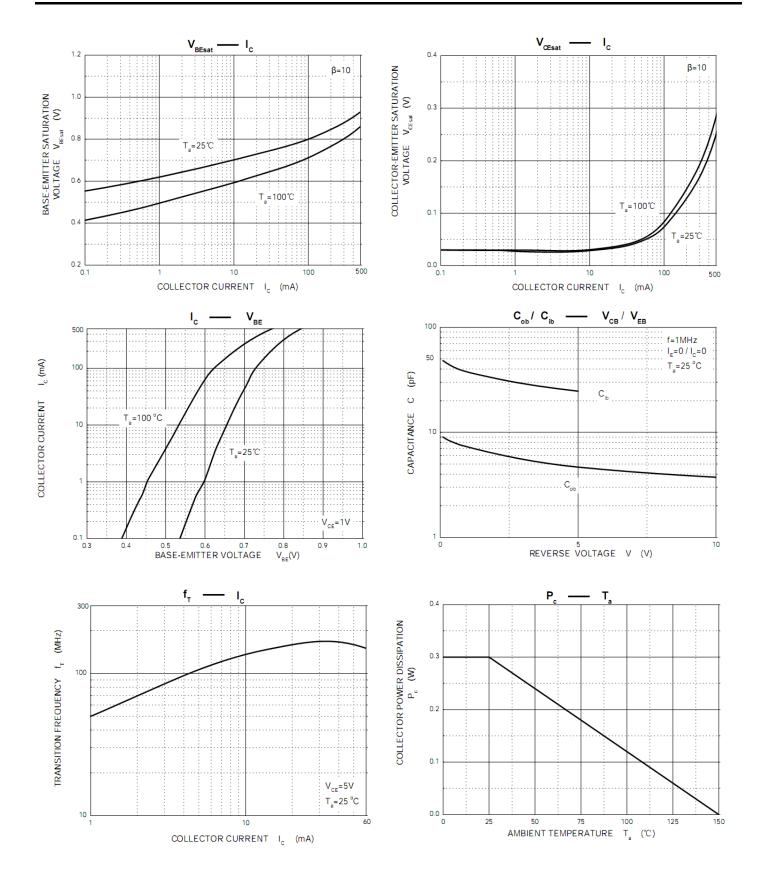
·····DUfUa YhYf	'Gma Vc''	··· HYghi WcbX]h]cbgʻ	·Ain	Тур	. Aax	Unit
7 c``YWcf!VUgY'VfYU_Xck b'j c`HU[Y'	V _{CBO}	I _C = 10μA, I _E =0	50			V
7 c``YWcf!Ya]HHYf'VfYU_Xckb'jc`HU[Y'	V_{CEO}	I _C = 10mA, I _B =0	45			V
9a]HHYf!VUgY'VfYU_Xck b'j c`HJ[Y'	V_{EBO}	I _E = 1μΑ, I _C =0	5			V
7 c``YWrcf`WiHcZZWiffYbh	I _{CBO}	V _{CB} = 45 V , I _E =0			0.1	μA
9a]HYf'WiHcZZWiffYbh	I _{EBO}	V _{EB} = 4V, I _C =0			0.1	μA
87 W ffYbh[Ujb	h _{FE(1)}	V _{CE} = 1V, I _C = 100mA	100		600	
	h _{FE(2)}	V _{CE} = 1V, I _C = 500mA	40			
7 c``YWkcf!Ya]HHYf`gUhifUhjcb'jc`HU[Y'	V _{CE} (sat)	I _C = 500mA, I _B = 50mA			0.7	V
6 UgY!Ya]lhhYf`gUhi fUh]cb`j c`hU[Y`	V _{BE} (sat)	I _C = 500mA, I _B = 50mA			1.2	V
6 UgY!Ya]HhYf`j c`HU[Y`	V_{BE}	V _{CE} = 1 V, I _C = 500mA			1.2	V
7 c``YWNYf`WUdUWIJUbWY	C _{ob}	V _{CB} =10V ,f=1MHz		10		pF
HfUbg]hjcb`ZfYei YbWhi	f⊤	V _{CE} = 5 V, I _C = 10mA f=100MHz	100			MHz

Typical Characteristics



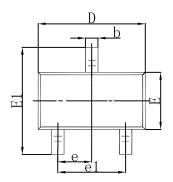


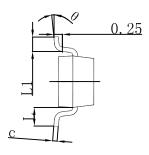


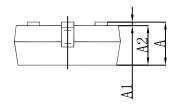




SOT-23 Package Outline Dimensions

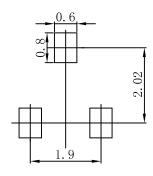






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е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

SOT-23 Suggested Pad Layout



- Note: 1.Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



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