

2SB815 / 2SD1048

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	ICBO	V _{CB} =(-)15V, I _E =0A			(-)0.1	μA
Emitter Cutoff Current	IEBO	V _{EB} =(-)4V, I _C =0A			(-)0.1	μA
DC Current Gain	h _{FE1}	V _{CE} =(-)2V, I _C =(-)50mA	200*		600*	
	h _{FE2}	V _{CE} =(-)2V, I _C =(-)500mA	80			
Gain-Bandwidth Product	f _T	V _{CE} =(-)10V, I _C =(-)50mA		250		MHz
Output Capacitance	Cob	V _{CB} =(-)10V, f=1MHz		(13)8		pF
Collector to Emitter Saturation Voltage	V _{CE(sat)1}	I _C =(-)5mA, I _B =(-)0.5mA		(-15)10	(-35)25	mV
	V _{CE(sat)2}	I _C =(-)100mA, I _B =(-)10mA		(-60)30	(-120)80	mV

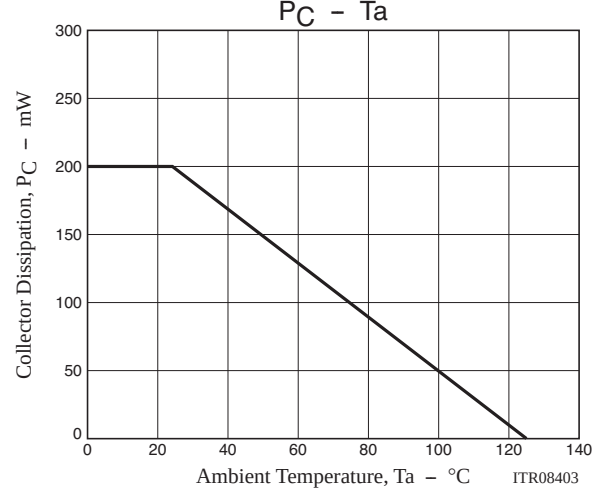
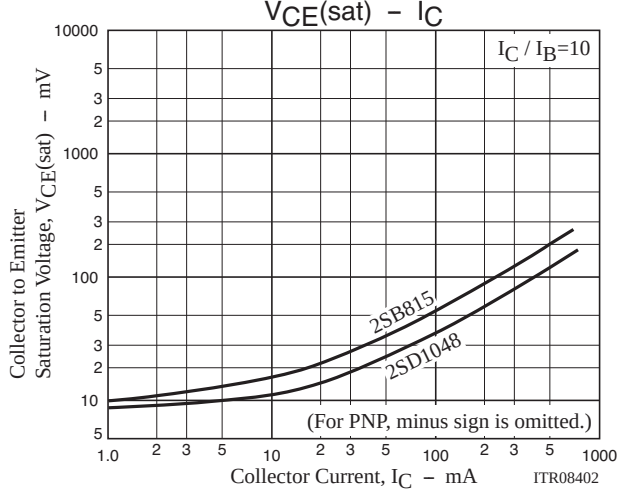
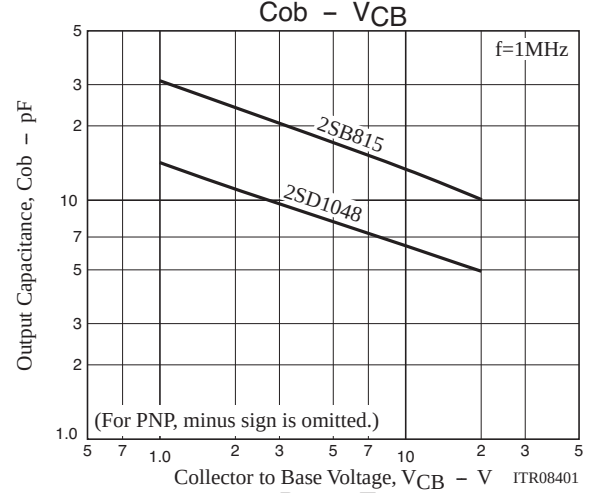
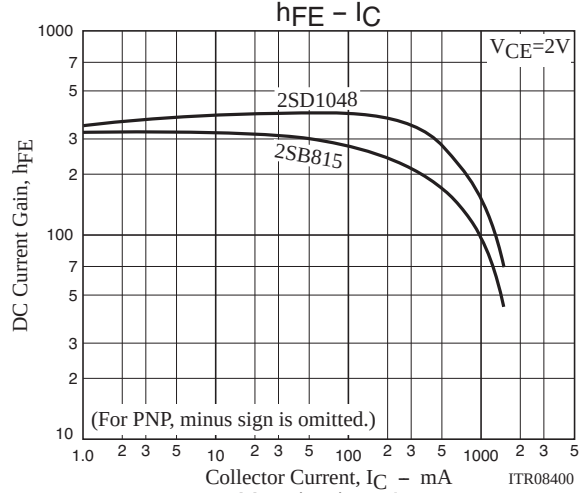
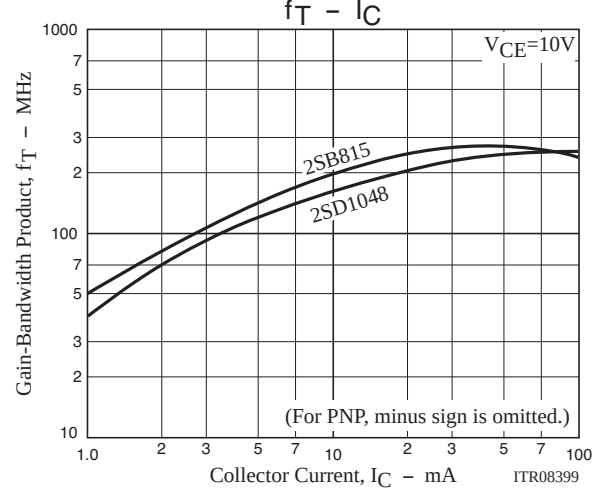
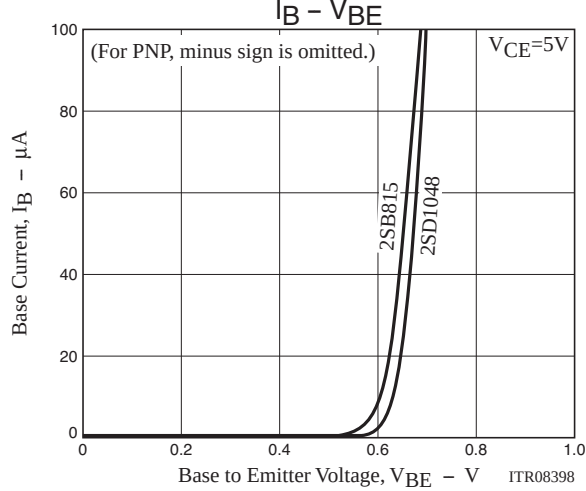
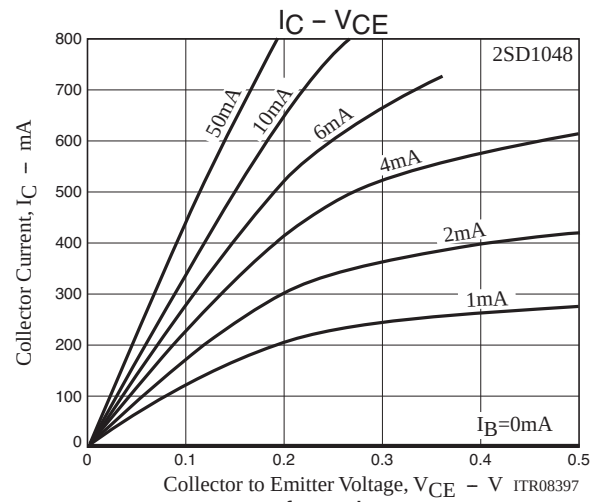
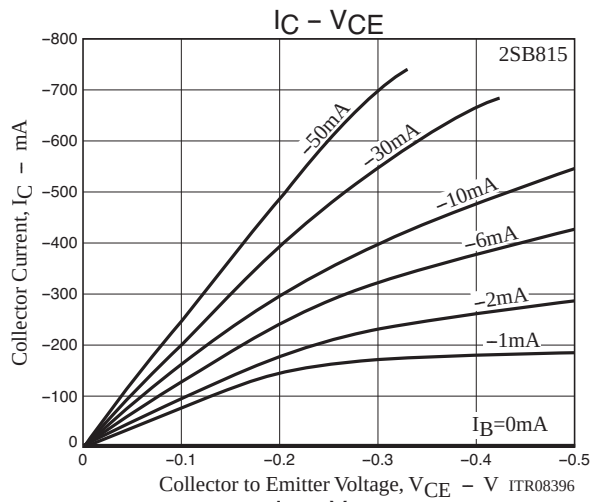
* : The 2SB815/2SD1048 are classified by 50mA h_{FE} as follows :

Rank	6	7
h _{FE}	200 to 400	300 to 600

Ordering Information

Device	Package	Shipping	memo
2SB815-6-TB-E	CP	3,000pcs./reel	Pb Free
2SB815-7-TB-E	CP	3,000pcs./reel	
2SD1048-6-TB-E	CP	3,000pcs./reel	
2SD1048-7-TB-E	CP	3,000pcs./reel	

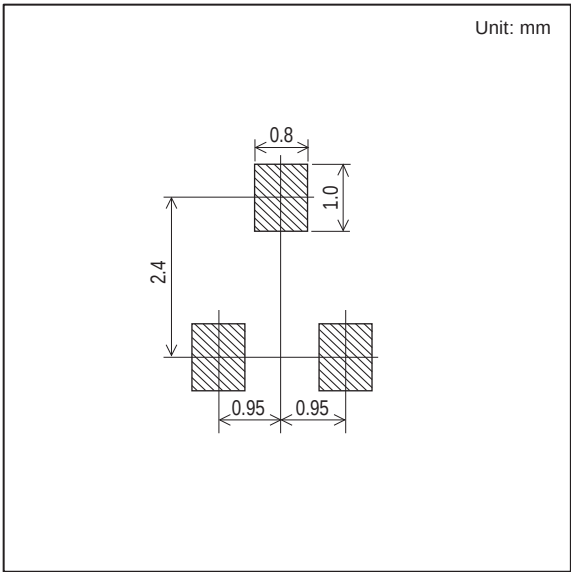
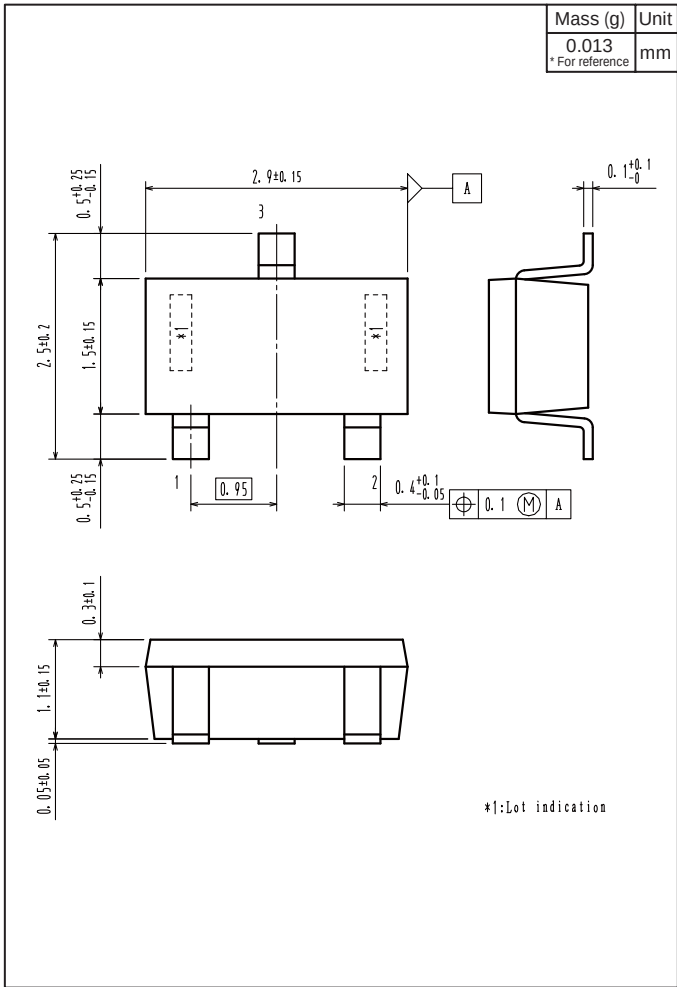
2SB815 / 2SD1048



Outline Drawing

2SB815-6-TB-E, 2SB815-7-TB-E, 2SD1048-6-TB-E, 2SD1048-7-TB-E

Land Pattern Example



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