Power Transistor (-60V, -3A) **2SB1184 / 2SB1243**

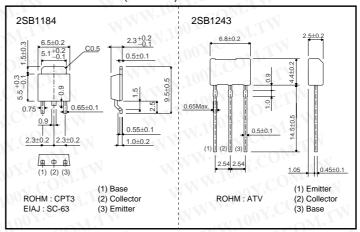
Features

- 1) Low VcE(sat). VcE(sat) = -0.5V (Typ.) (Ic/IB = -2A/-0.2A)
- 2) Complements the 2SD1760 / 2SD1864.

Structure

Epitaxial planar type PNP silicon transistor

●External dimensions (Unit: mm)



● Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit
Collector-base voltage		Vсво	-60	NOM.
Collector-emitter voltage		VCEO	-50	V V
Emitter-base voltage		VEBO	-5	100 V
Collector current		lc	-3	A (DC)
Collector power dissipation	2SB1184	Pc	1	W
			15	W (Tc=25°C)
	2SB1243		1	W *1
Junction temperature		COT	150	√ V°C
Storage temperature		Tstg	-55 to 150	°C

^{*1} Printed circuit board, 1.7mm thick, collector copper plating 100mm² or larger.

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●Electrical characteristics (Ta=25°C)

N
XXI
1
MHz
Hz

^{*} Measured using pulse current.

CO CO	Mrs		WWW.L		
●Pack	aging	spec	ifications and hre	COM.	
		1.7.	Package	Tap	ping
		T	Code	TL	TV
Type	CO	hfe	Basic ordering unit (pieces)	2500	250
2SB11	184	PQR	TWW.Io	0.0	Mr
2SB12	243	PQR	777	(0) y .	

hre values are classified as follows:

Item	P	Q	R	
hFE	82 to 180	120 to 270	180 to 390	

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Electrical characteristic curves

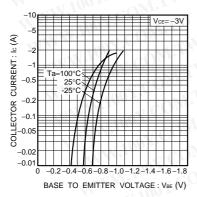


Fig.1 Grounded emitter propagation characteristics

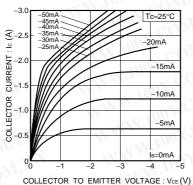
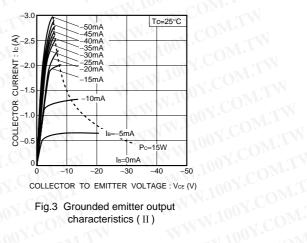


Fig.2 Grounded emitter output characteristics (I)

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WWW.100Y.CC

WWW.100Y.COM.TW



NW.100Y.COM.T

Fig.3 Grounded emitter output WWW.100Y.COM. characteristics (II)

Transistors

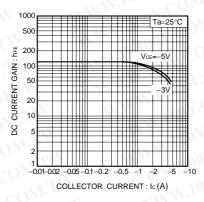


Fig.4 DC current gain vs. collector current (I)

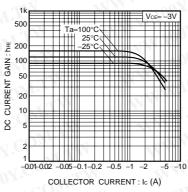


Fig.5 DC current gain vs. collector current (II)

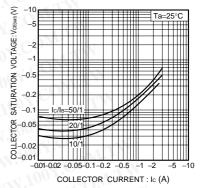


Fig.6 Collector-emitter saturation voltage vs.collector current

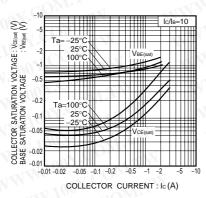


Fig.7 Collector-emitter saturation voltage vs. collector current Base-emitter saturation voltage vs. collector current

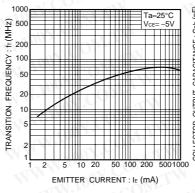


Fig.8 Gain bandwidth product vs. emitter current

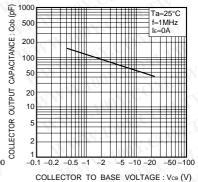


Fig.9 Collector output capacitance vs. collector base voltage

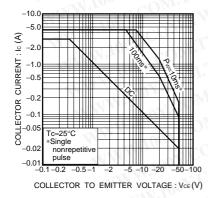


Fig.10 Safe operation area (2SB1184)

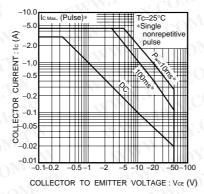


Fig.11 Safe operation area (2SB1243)

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