

Driver Applications

Applications

· Motor drivers, hammer drivers, relay drivers.

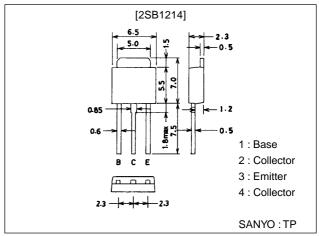
Features

- · High DC current gain.
- · Darlington connection.
- · Small and slim package permitting the 2SB1214-applied sets to be made more compact.

Package Dimensions

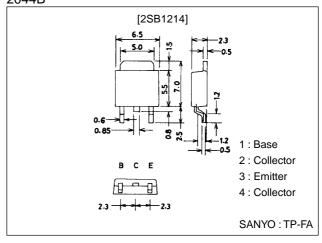
unit:mm

2045B



unit:mm

2044B



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Specifications

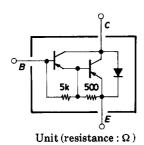
Absolute Maximum Ratings at Ta = 25°C

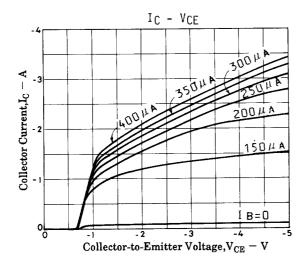
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		-80	V
Collector-to-Emitter Voltage	VCEO		-60	V
Emitter-to-Base Voltage	V _{EBO}		-6	V
Collector Current	l _C		-3	Α
Collector Current (Pulse)	I _{CP}		-6	Α
Collector Dissipation	PC		1	W
		Tc=25°C	15	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

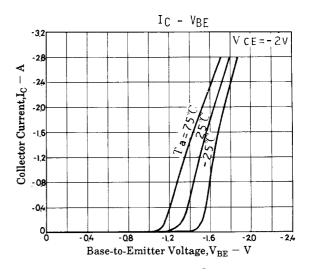
Electrical Characteristics at Ta = 25°C

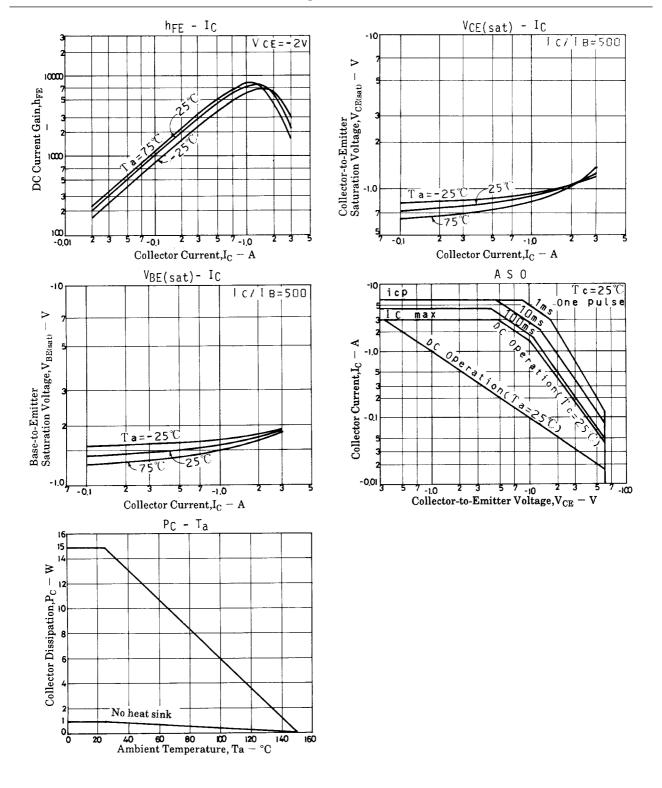
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	J OI III
Collector Cutoff Current	ICBO	V _{CB} =-60V, I _E =0			-10	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-5V, I _C =0			-2.5	mA
DC Current Gain	h _{FE} 1	V _{CE} =-2V, I _C =-1A	2000			
	h _{FE} 2	V _{CE} =-2V, I _C =-2A	1000			
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =-2A, I _B =-4mA			-1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =-2A, I _B =-4mA			-2.0	V
Collector-to-Base Breakdown Voltage	V(BR)CBO	$I_C=-1$ mA, $I_E=0$	-80			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =-25mA, R _{BE} =∞	-60			V

Electrical Connection









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