

**2SB1214****Driver Applications****Applications**

- Motor drivers, hammer drivers, relay drivers.

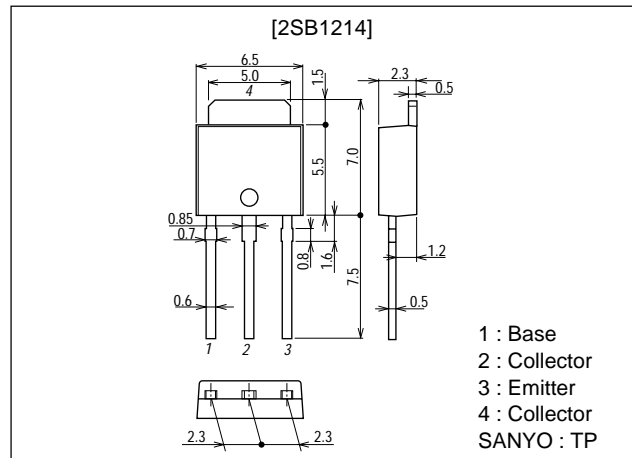
**Features**

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

**Package Dimensions**

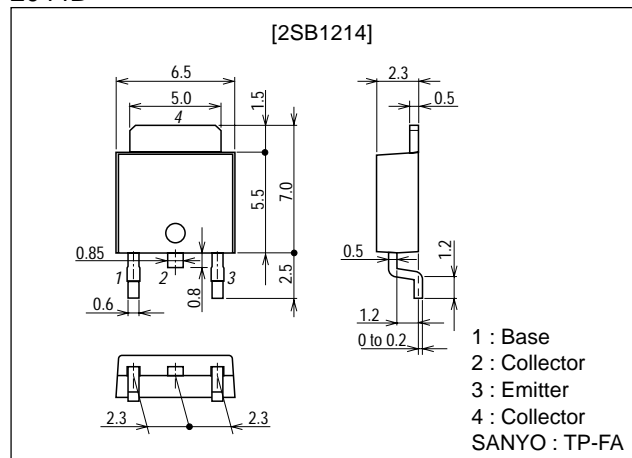
unit:mm

2045B



unit:mm

2044B



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Specifications

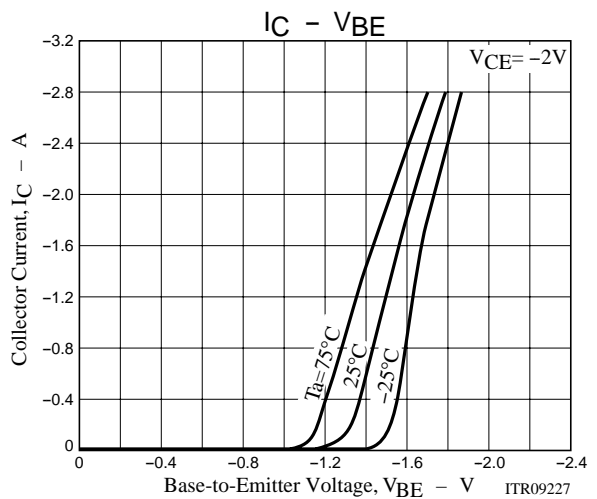
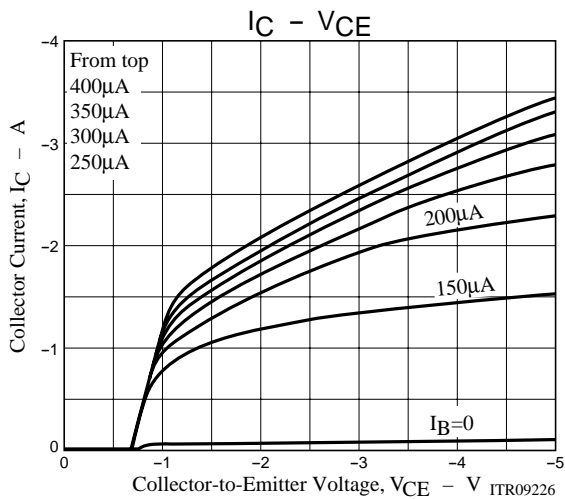
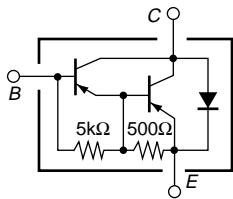
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	$V_{CBO}$		-80	V
Collector-to-Emitter Voltage	$V_{CEO}$		-60	V
Emitter-to-Base Voltage	$V_{EBO}$		-6	V
Collector Current	$I_C$		-3	A
Collector Current (Pulse)	$I_{CP}$		-6	A
Collector Dissipation	$P_C$		1	W
		$T_c=25^{\circ}\text{C}$	15	W
Junction Temperature	$T_j$		150	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$		-55 to +150	$^{\circ}\text{C}$

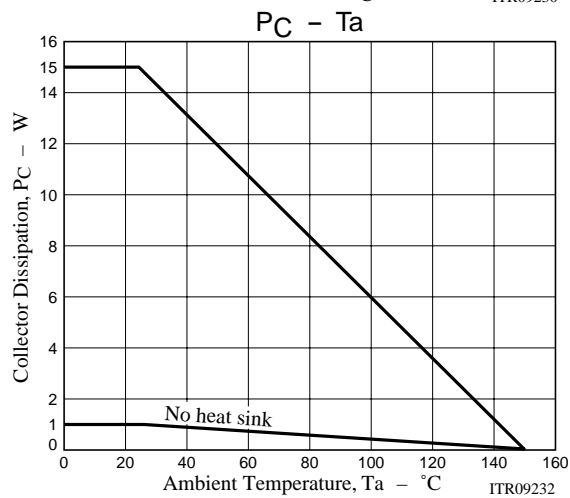
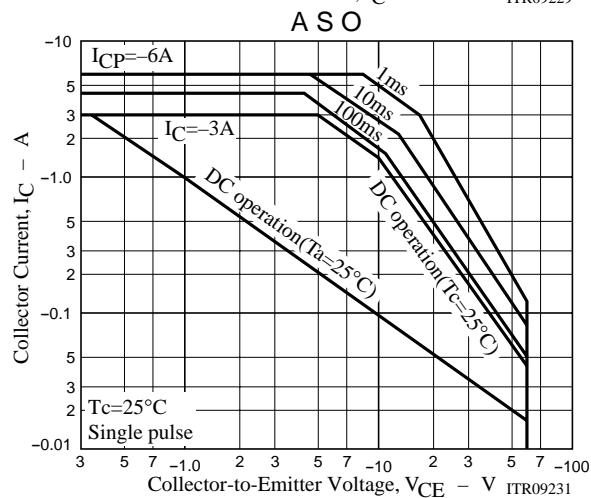
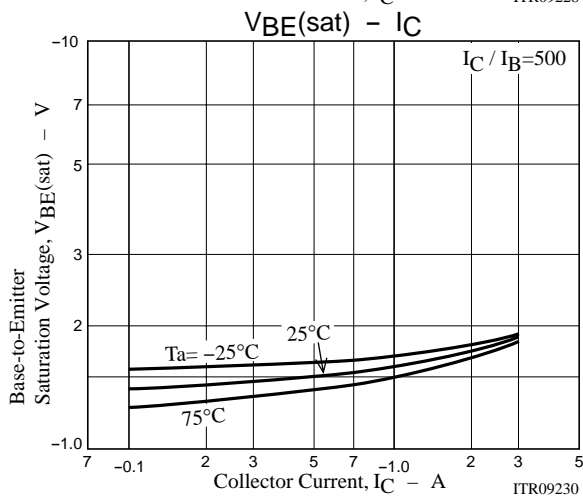
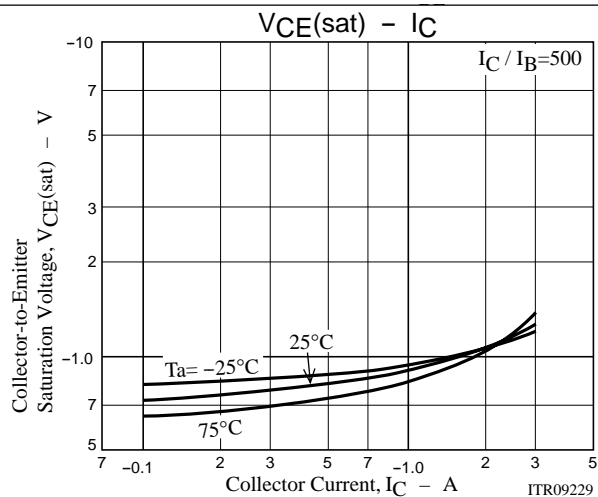
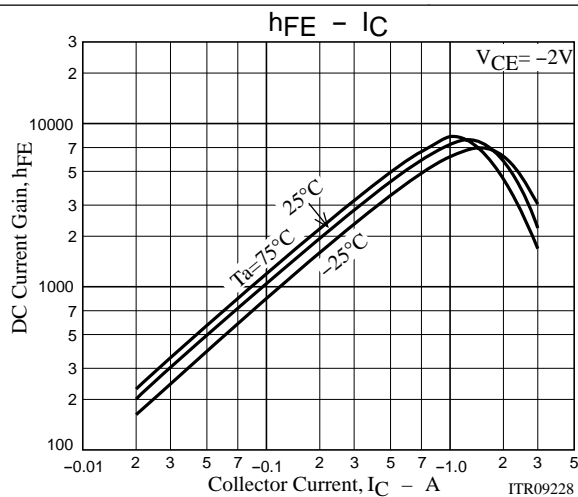
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	$I_{CBO}$	$V_{CB}=-60\text{V}, I_E=0$			-10	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=-5\text{V}, I_C=0$			-2.5	mA
DC Current Gain	$h_{FE1}$	$V_{CE}=-2\text{V}, I_C=-1\text{A}$	2000			
	$h_{FE2}$	$V_{CE}=-2\text{V}, I_C=-2\text{A}$	1000			
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-2\text{A}, I_B=-4\text{mA}$			-1.5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-2\text{A}, I_B=-4\text{mA}$			-2.0	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=-1\text{mA}, I_E=0$	-80			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-25\text{mA}, R_{BE}=\infty$	-60			V

Electrical Connection



2SB1214



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