SANYO

2SB1406

Driver Applications

Applications

· Relay drivers, hammer drivers, lamp drivers, motor drivers.

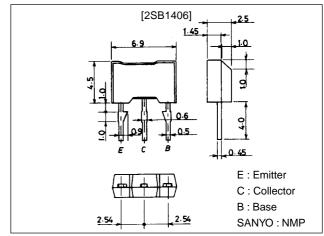
Features

- · Darlington connection.
- · High DC current gain.
- · Large current capacity.

Package Dimensions

unit:mm

2064



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}		– 50	V
Emitter-to-Base Voltage	V _{EBO}		-10	V
Collector Current	IC		-1.5	А
Collector Current (Pulse)	I _{CP}		-3	Α
Collector Dissipation	PC		1	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

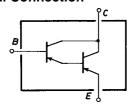
Electrical Characteristics at Ta = 25°C

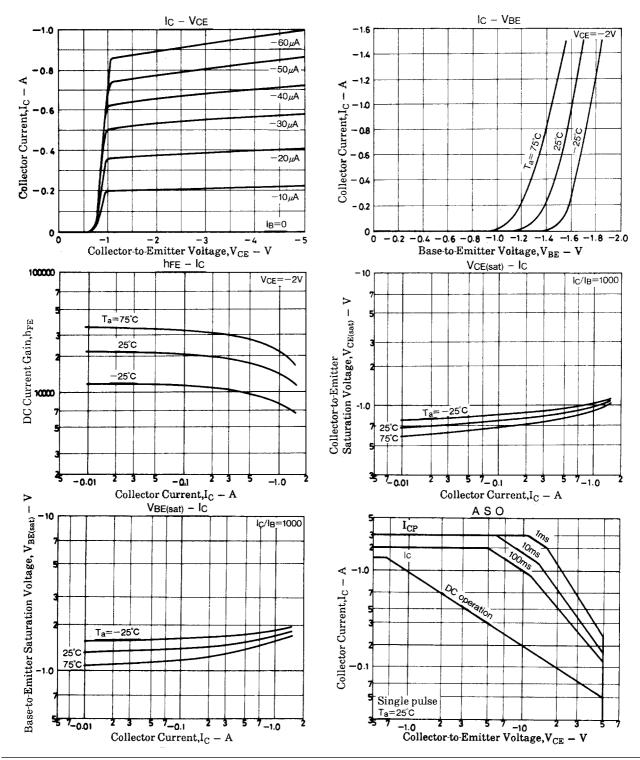
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector Cutoff Current	ICBO	V _{CB} =-40V, I _E =0			-100	nA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-6V, I _C =0			-100	nA
DC Current Gain	h _{FE} 1	V _{CE} =-2V, I _C =-500mA	4000			
	h _{FE} 2	V _{CE} =-2V, I _C =-10mA	3000			
Gain-Bandwidth Product	fΤ	V _{CE} =-10V, I _C =-50mA		120		MHz
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =-500mA, I _B =-0.5mA		-0.9	-1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =-500mA, I _B =-0.5mA		-1.5	-2.0	V

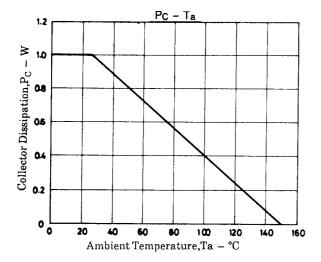
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Onit
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =-10μA, I _E =0	-80			V
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =-1mA, R _{BE} =∞	-50			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =-10μA, I _C =0	-10			V

Electrical Connection







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