

2SB1510/2SD2284

60V/3A Driver Applications

Applications

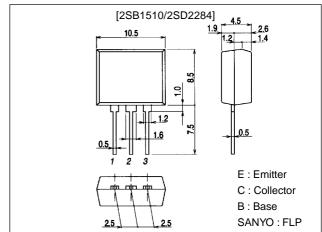
· Motor drivers, hammer drivers, relay drivers.

Features

- · High DC current gain.
- · Good dependence of DC current gain.

Package Dimensions unit:mm

2084



(): 2SB1510

Specifications

Absolute Maximum Ratings at Ta = 25°C

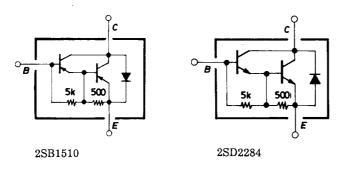
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(–)80	V
Collector-to-Emitter Voltage	VCEO		(–)60	V
Emitter-to-Base Voltage	V _{EBO}		(-)6	V
Collector Current	I _C		(-)3	Α
Collector Current (Pulse)	ICP		(–)6	Α
Collector Dissipation	PC		1.5	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

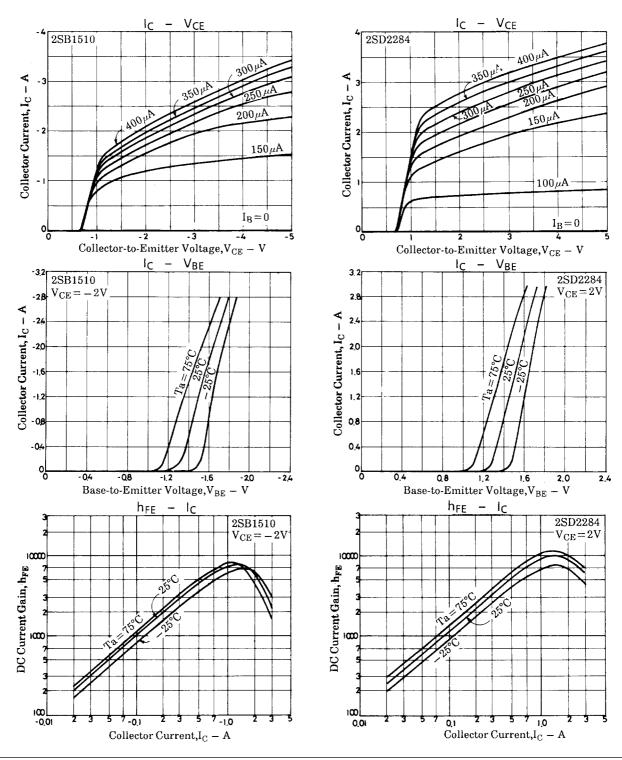
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)60V, I _E =0			(–)10	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)5V, I _C =0			(-)2.5	mA
DC Current Gain	h _{FE} 1	V _{CE} =(-)2V, I _C =(-)1A	2000			
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)2A	1000			
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 =(-)1mA, I _E =0	(–)80			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =(-)10mA, R _{BE} =∞	(-)60			V

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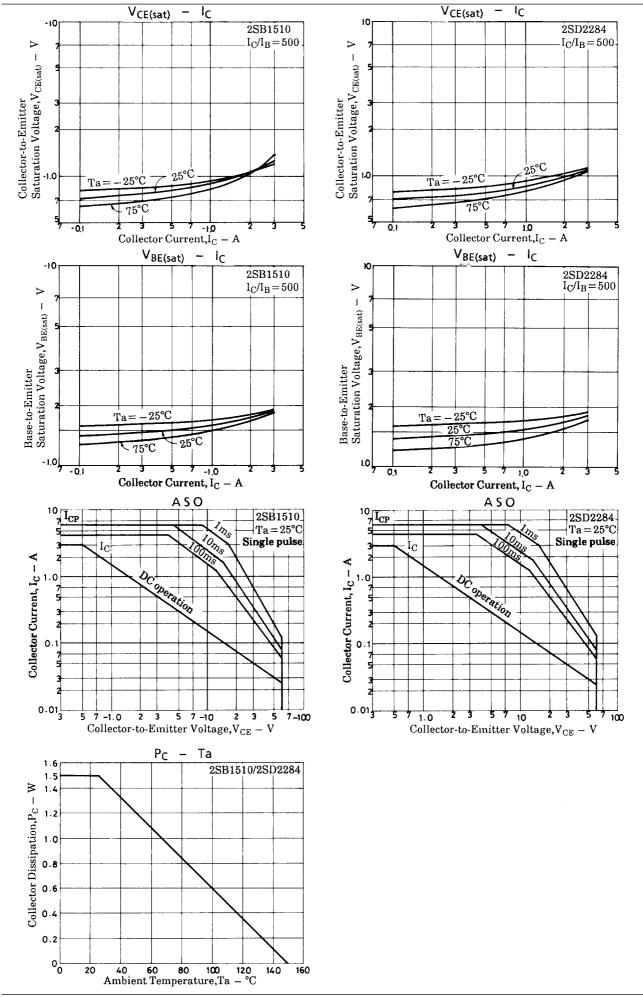
Electrical Connection



 $Unit\,(resistance:\Omega)$



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