Package Dimensions

unit:mm 2084

PNP/NPN Epitaxial Planar Silicon Transistors



2SB1510/2SD2284

60V/3A Driver Applications

Applications

· Motor drivers, hammer drivers, relay drivers.

Features

- · High DC current gain.
- WWW.DZSC.COM · Good dependence of DC current gain.

(): 2SB1510

Specifications

Absolute Maximum Ratings at Ta = 25°C

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[2SB1510/2SD2284	4.5
10.5	.9 2.6 1.2 1.4
8.5	
1.6	0.5
1 2 3	N.DZSC.
	E : Emitter
(mm mm)	C : Collector
	B : Base
2.5	SANYO: FLP

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}	140	(-)6	V	
Collector Current	IC	and CF	(-)3	Α	
Collector Current (Pulse)	I _{CP}	- All Com In	(–)6	Α	
Collector Dissipation	PC	A STRICT W	1.5	W	
Junction Temperature	Tj		150	°C	
Storage Temperature	Tstg		-55 to +125	°C	

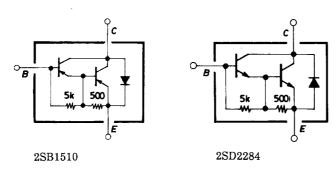
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions		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		177	W.
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)2A	1000	-11	7.77	-034
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =(-)2A, I _B =(-)4mA	M.	- 67	(-)1.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)2A, I _B =(-)4mA	LL 101	W-11	(-)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

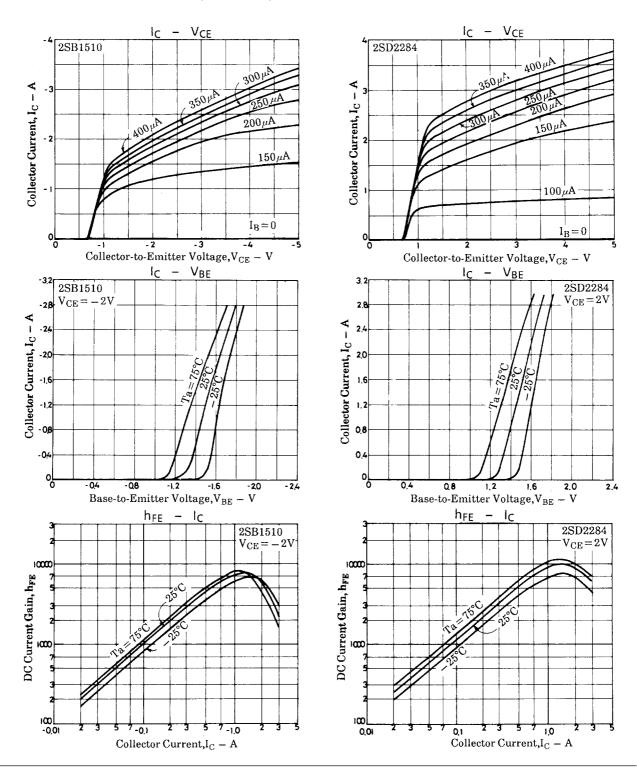
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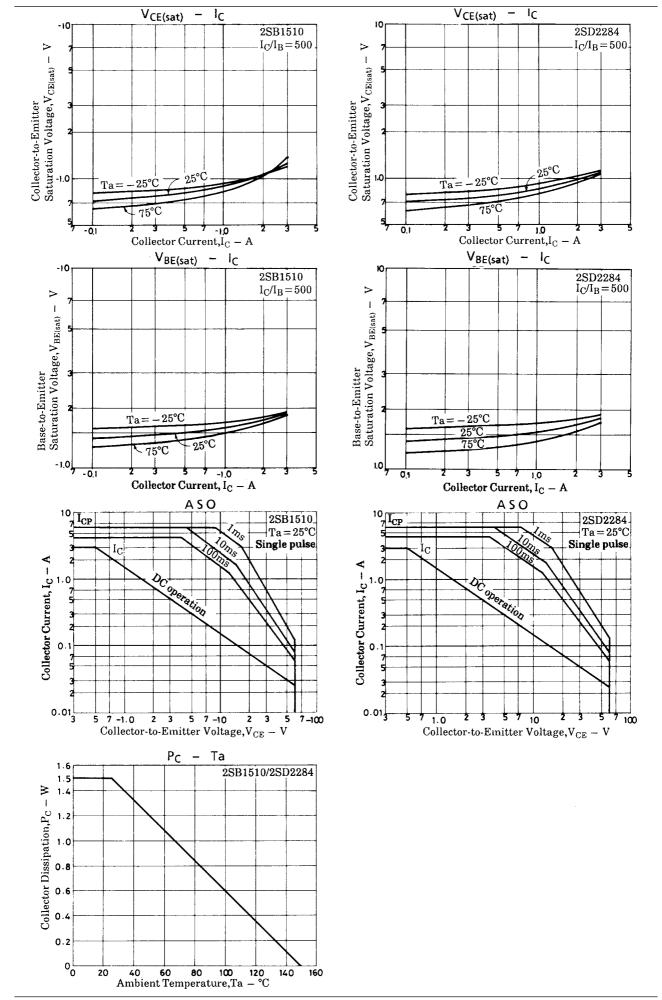
Electrical Connection



Unit (resistance : Ω)



2SB1510/2SD2284



2SB1510/2SD2284

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