捷多邦,专业PCB打样工厂,24小时加急出货

查询2SB1451供应商

Ordering number:EN3151

PNP/NPN Epitaxial Planar Silicon Transistors

2SB1451/2SD2200

80V/5A Switching Applications

Features

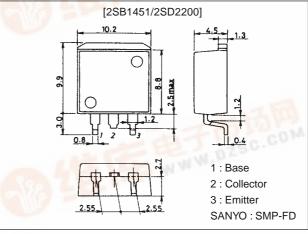
- Surface mount type device making the following possible.
 - -Reduction in the number of manufacturing processes for 2SB1451/2SD2200-applied equipment.
 - -High density surface mount applications. -Small size of 2SB1451/2SD2200-applied equipment.
- Low collector-to-emitter saturation voltage.
- · Large current capacity.

Package Dimensions

unit:mm

W.DZSC.COM





():2SB1451

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		(–)90	V
Collector-to-Emitter Voltage	VCEO		(–)80	V
Emitter-to-Base Voltage	V _{EBO}		(–)6	V
Collector Current	ΙC	- EP	()5	A
Collector Current (Pulse)	ICP	A Start Contraction	(–)9	A
Collector Dissipation	PC		1.65	W
		Tc=25°C	30	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg	- and	-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Unit
		min typ	max
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)80V, I _E =0	(–)0.1 mA
Emitter Cutoff Current	IEBO	V _{EB} =(-)4V, I _C =0	(–)0.1 mA
DC Current Gain	h _{FE} 1	V _{CE} =(-)2V, I _C =(-)1A 70*	280*
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)3A 30	4 G - G
Gain-Bandwidth Product	fT	V _{CE} =(-)5V, I _C =(-)1A 20	MHz
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =(–)3A, I _B =(–)0.3A	0.4 V
			(-0.5) V
* : The 2SB14512SD2200 are classified by 1A h	FE as follows	70 Q 140 100 R 200 140 S 280	

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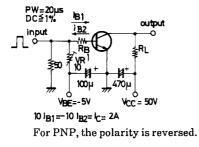
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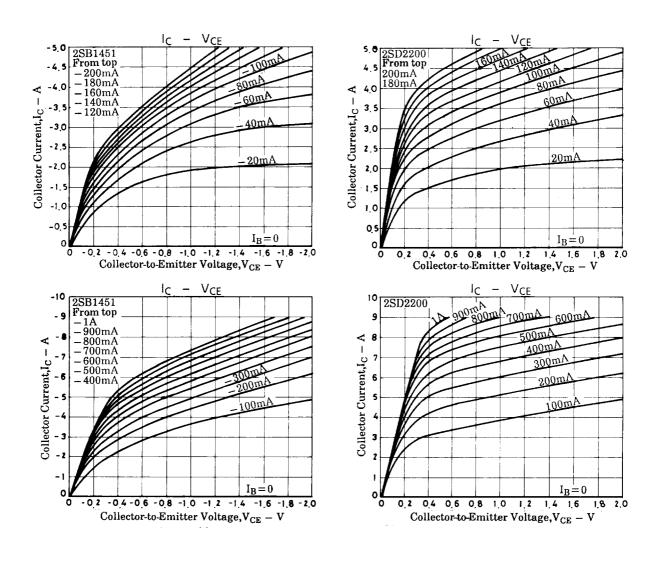
2SB1451/2SD2200

Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Collector-to-Base Breakdown Voltage	V _(BR) CBO	I _C =(-)1mA, I _E =0	(–)90			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =(−)1mA, R _{BE} =∞	(–)80			V
Emitter-to-Base Breakdown Voltage	V(BR)EBO	I _E =(-)1mA, I _C =0	(–)6			V
Turn-ON Time	ton	See specified test circuit.		(0.2)		μs
				0.1		μs
Storage Time	t _{stg}	See specified test circuit.		(0.7)		μs
				1.2		μs
Fall Time	t _f	See specified test circuit.		(0.2)		μs
				0.4		μs

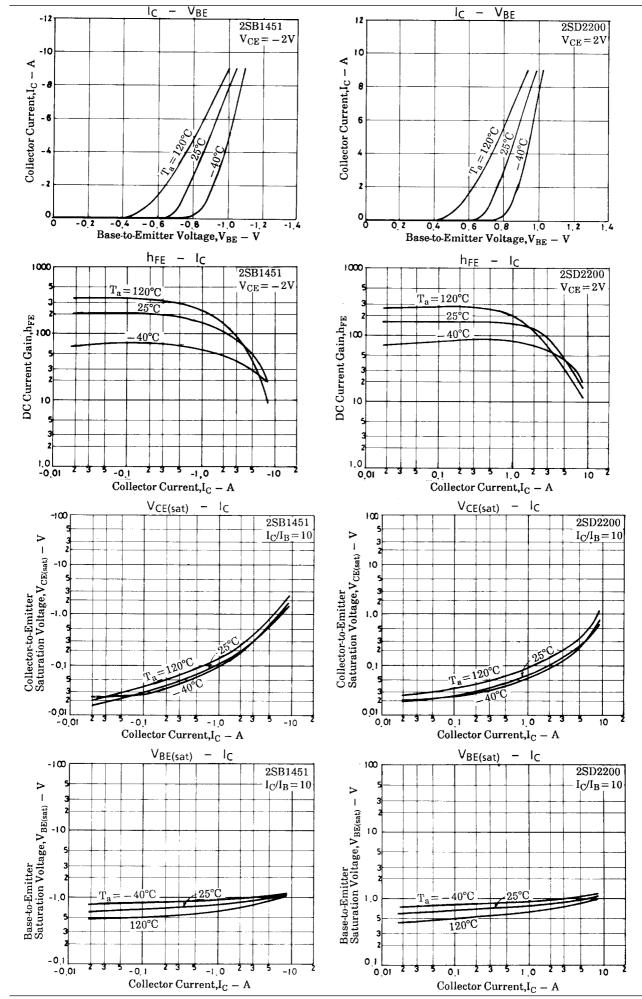
Switching Time Test Circuit

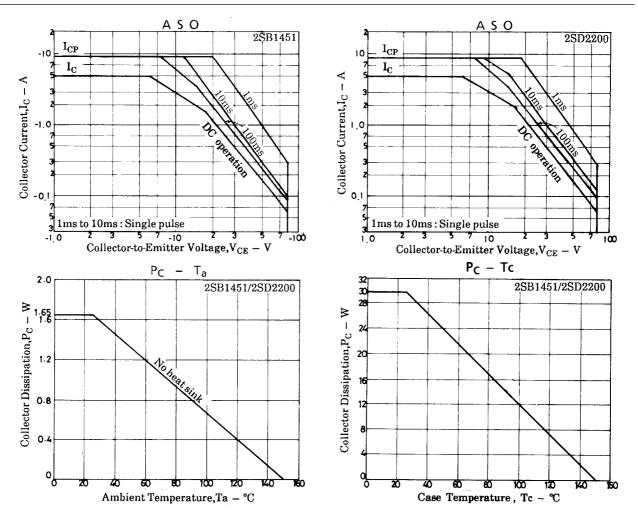


Unit (resistance : Ω , capacitance : F)



2SB1451/2SD2200





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