2SB1391

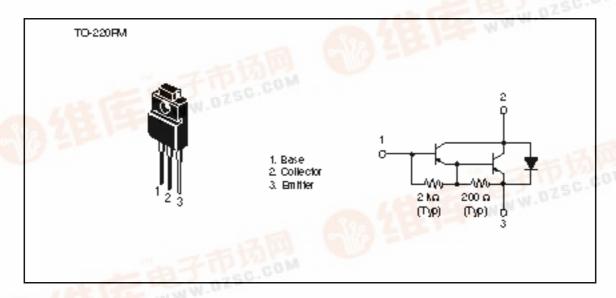
Silicon PNP Triple Diffused

HITACHI

Application

Power switching

Outline



Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

DEZG.WWW

Item	Symbol	Ratings	Unit	
Collector to base voltage	V_{CBO}	-120		
Collector to emitter voltage	V_{CEO}	-120	V	
Emitter to base voltage	V _{EBO}	- 7	V	
Collector current	I _c	-8	А	
Collector peak current	C(peak)	-12	А	
Collector power dissipation	P _c	2	W	
	P _c *1	25		
Junction temperature	Tj	150 °C		
Storage temperature	Tstg	-55 to +150	°C	
Note: 4 Value of T 2500				

Note: 1. Value at $T_c = 25$ °C.



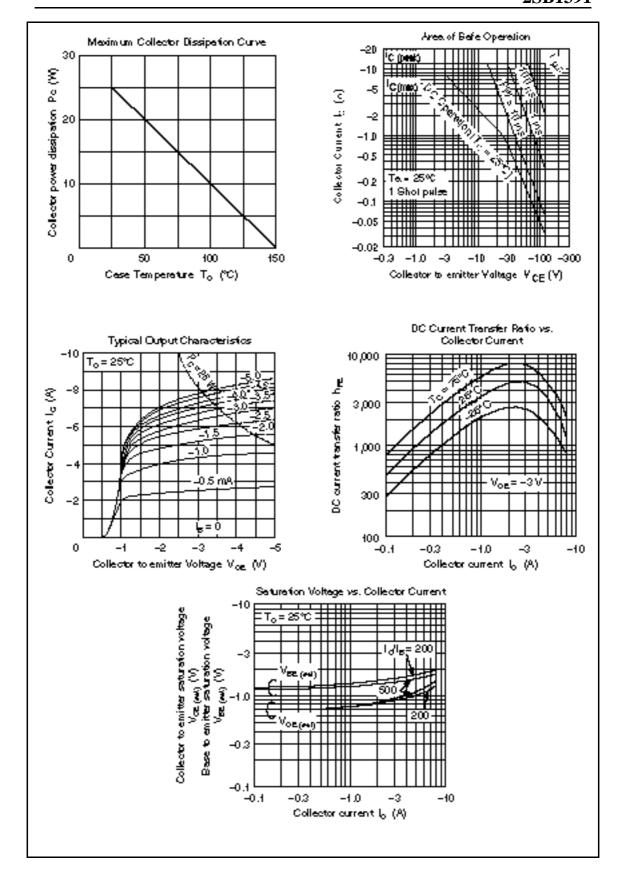
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Electrical Characteristics ($Ta = 25^{\circ}C$)

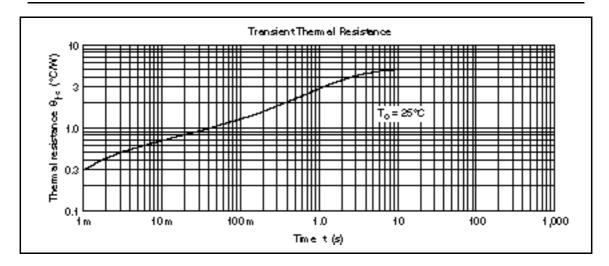
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-120	_	_	V	$I_{c} = -0.1 \text{ mA}, I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-120	_	_	V	$I_{\text{C}} = -25 \text{ mA}, R_{\text{BE}} =$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	- 7	_	_	V	$I_{E} = -50 \text{ mA}, I_{C} = 0$
Collector cutoff current	I _{CBO}	_	_	-10	μΑ	$V_{CB} = -100 \text{ V}, I_{E} = 0$
	I _{CEO}	_	_	-10	=	$V_{CE} = -100 \text{ V}, R_{BE} =$
DC current transfer ratio	h _{FE}	1000	_	20000		$V_{CE} = -3 \text{ V}, I_{C} = -4 \text{ A}^{*1}$
Collector to emitter saturation	V _{CE(sat)1}	_	_	-1.5	V	$I_{\rm C} = -4 \text{ A}, I_{\rm B} = -8 \text{ mA}^{*1}$
voltage	V _{CE(sat)2}	_	_	-3.0	=	$I_{\rm C} = -8 \text{ A}, I_{\rm B} = -80 \text{ mA}^{*1}$
Base to emitter saturation	V _{BE(sat)1}	_		-2.0	V	$I_{\rm C} = -4 \text{ A}, I_{\rm B} = -8 \text{ mA}^{*1}$
voltage	$V_{BE(sat)2}$	_	_	-3.5	_	$I_{\rm C} = -8 \text{ A}, I_{\rm B} = -80 \text{ mA}^{*1}$

Note: 1. Pulse test.

See switching characteristic curve of 2SB791(K).



2SB1391



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