Unit: mm

TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT process)

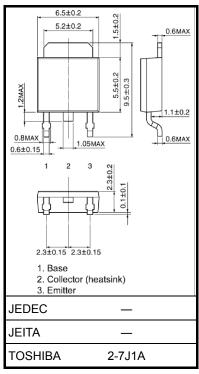
2SB907

Switching Applications
Hammer Drive, Pulse Motor Drive Applications
Power Amplifier Applications

- High DC current gain: h_{FE} (1) = 2000 (min) (V_{CE} = -2 V, I_{C} = -1 A)
- Low saturation voltage: $V_{CE (sat)} = -1.5 \text{ V (max) (IC} = -2 \text{ A)}$
- Complementary to 2SD1222.

Absolute Maximum Ratings (Ta = 25°C)

Characteristics		Symbol	Rating	Unit	
Collector-base voltage		V_{CBO}	-60	V	
Collector-emitter voltage		V _{CEO}	-40	٧	
Emitter-base voltage		V _{EBO}	-5	٧	
Collector current		Ic	-3	Α	
Base current		Ι _Β	-0.3	Α	
Collector power dissipation	Ta = 25°C	Pc	1.0	W	
	Tc = 25°C	FC	15		
Junction temperature		Tj	150	°C	
Storage temperature range		T _{stg}	−55 to 150	°C	

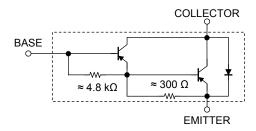


Weight: 0.36 g (typ.)

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Equivalent Circuit

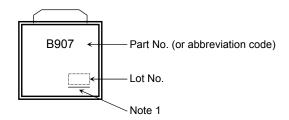




Electrical Characteristics (Ta = 25°C)

Chara	acteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off of	current	I _{CBO}	$V_{CB} = -60 \text{ V}, I_E = 0$	_	_	-20	μΑ
Emitter cut-off cu	rrent	I _{EBO}	V _{EB} = -5 V, I _C = 0	-	_	-2.5	mA
Collector-emitter breakdown voltage		V (BR) CEO	$I_C = -25 \text{ mA}, I_B = 0$	-40	_	_	V
DC current gain		h _{FE (1)}	V _{CE} = -2 V, I _C = -1 A	2000	_	_	
		h _{FE} (2)	V _{CE} = -2 V, I _C = -3 A	1000	_	_	
Collector-emitter saturation voltage		V _{CE} (sat)	I _C = -2 A, I _B = -4 mA	-	_	-1.5	V
Base-emitter saturation voltage		V _{BE} (sat)	I _C = -2 A, I _B = -4 mA	-	_	-2.0	V
Switching time	Turn-on time	t _{on}	OUTPUT $B2$ $B2$ D D D D D D D	_	0.30	_	
	Storage time	t _{stg}		_	0.60	_	μs
	Fall time	t _f		_	0.25	_	

Marking



Note 1: A line under a Lot No. identifies the indication of product Labels.

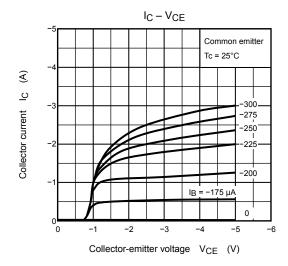
Not underlined: [[Pb]]/INCLUDES > MCV

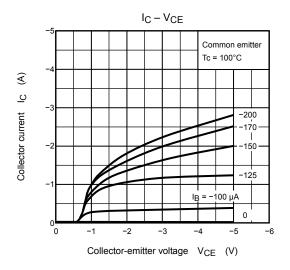
Underlined: [[G]]/RoHS COMPATIBLE or [[G]]/RoHS [[Pb]]

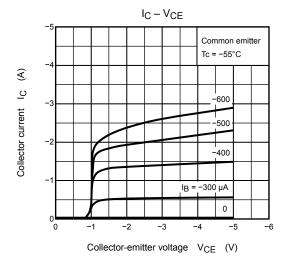
Please contact your TOSHIBA sales representative for details as to environmental matters such as the RoHS compatibility of Product. The RoHS is the Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

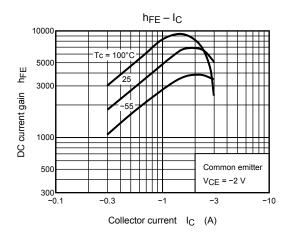
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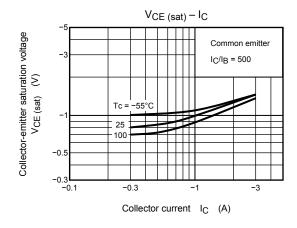
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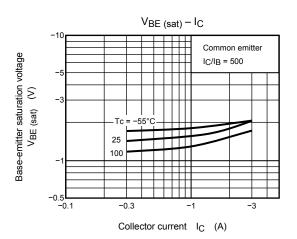


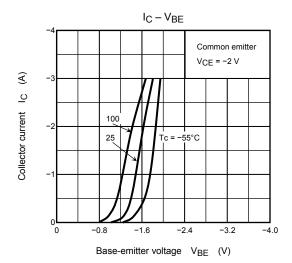


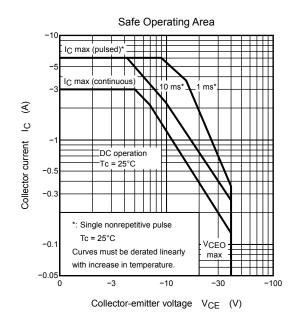


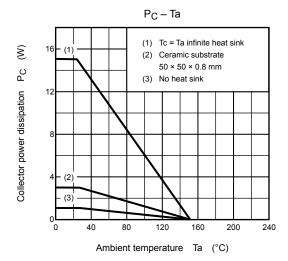












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