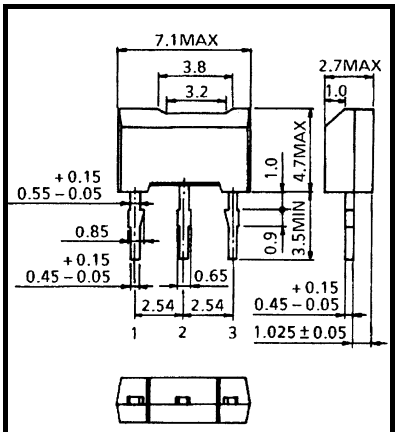
TOSHIBA Transistor Silicon PNP Epitaxial Type (PCT Process)

2SA1926

Power Amplifier Applications
Power Switching Applications

- Low collector saturation voltage: $V_{CE\ (sat)}$ = −0.17 V (max) (I_C = −1 A)

Unit: mm



JEDEC	—
JEITA	—
TOSHIBA	2-7D101A

Weight: 0.2 g (typ.)

Absolute Maximum Ratings (Ta = 25°C)

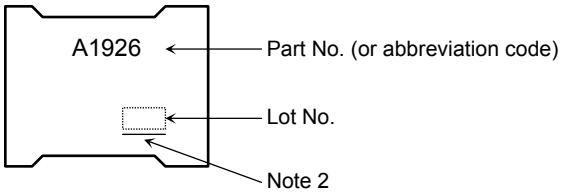
Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	−80	V
Collector-emitter voltage	V_{CEO}	−80	V
Emitter-base voltage	V_{EBO}	−8	V
Collector current	I_C	−3	A
Base current	I_B	−1	A
Collector power dissipation	P_C	1000	mW
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	−55 to 150	°C

Note 1: 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).

Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I_{CBO}	V_{CB} = −80 V, I_E = 0	—	—	−1	μA
Emitter cut-off current	I_{EBO}	V_{EB} = −8 V, I_C = 0	—	—	−1	μA
Collector-emitter breakdown voltage	V_{CEO}	I_C = −10 mA, I_B = 0	−80	—	—	V
DC current gain	$h_{FE\ (1)}$	V_{CE} = −2 V, I_C = −500 mA	150	—	400	
	$h_{FE\ (2)}$	V_{CE} = −2 V, I_C = −1.5 A	40	—	—	
Collector-emitter saturation voltage	$V_{CE\ (sat)}$	I_C = −1 A, I_B = −50 mA	—	—	−0.17	V
Base-emitter saturation voltage	$V_{BE\ (sat)}$	I_C = −1 A, I_B = −50 mA	—	—	−1.2	V
Transition frequency	f_T	V_{CE} = −2 V, I_C = −0.5 A	—	80	—	MHz
Collector output capacitance	C_{ob}	V_{CB} = −10 V, I_E = 0, f = 1 MHz	—	45	—	pF

Marking



Note 2: 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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