TOSHIBA Transistor Silicon PNP Triple Diffused Type

TTA0001

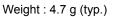
○ Power Amplifier Applications

- High collector voltage: V_{CEO} = -160 V (min.)
- Complementary to TTC0001
- Recommended for 100-W high-fidelity audio frequency amplifier output stage.

07 XVWEE 2.0±0.3 1.0-0.25 5.45±0.2 XVW8 1.0-0.25	9MAX 03.2±0.2 0 0 0 0 0 0 0 0 0 0 0 0 0
JEDEC	—
JEITA	—

Absolute Maximum Ratings (Tc = 25°C)

Characteristics		Symbol	Rating	Unit
Collector-base voltage		V _{CBO}	-160	V
Collector-emitter voltage		V _{CEO}	-160	V
Emitter-base voltage		V _{EBO}	-5	V
Collector current	DC	Ι _C	-18	А
	Pulse	I _{CP}	-35	А
Base current		Ι _Β	-9	А
Collector power dissipation		PC	150	W
Junction temperature		Tj	150	°C
Storage temperature range		T _{stg}	-55 to 150	°C



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.

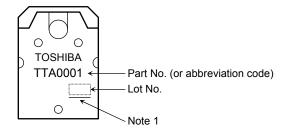
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/Derating Concept and Methods) and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Unit: mm

Electrical Characteristics (Tc = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} = -160 V, I _E = 0	_	_	-1.0	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -5 V, I _C = 0	_	_	-1.0	μA
Collector-emitter breakdown voltage	V (BR) CEO	I _C = -50 mA, I _B = 0	-160	-	—	V
DC current gain	h _{FE (1)}	V _{CE} = -5 V, I _C = -1 A	80	-	160	
	h _{FE (2)}	V _{CE} = -5 V, I _C = -9 A	35	-	—	
Collector-emitter saturation voltage	V _{CE (sat)}	I _C = -9 A, I _B = -0.9 A	_	-	-2.0	V
Base-emitter voltage	V _{BE}	V _{CE} = -5 V, I _C = -9 A	_	-	-1.5	V
Transition frequency	f _T	V _{CE} = -5 V, I _C = -1 A	_	30	_	MHz
Collector output capacitance	C _{ob}	V_{CB} = -10 V, I _E = 0, f = 1 MHz		410	-	pF

Marking

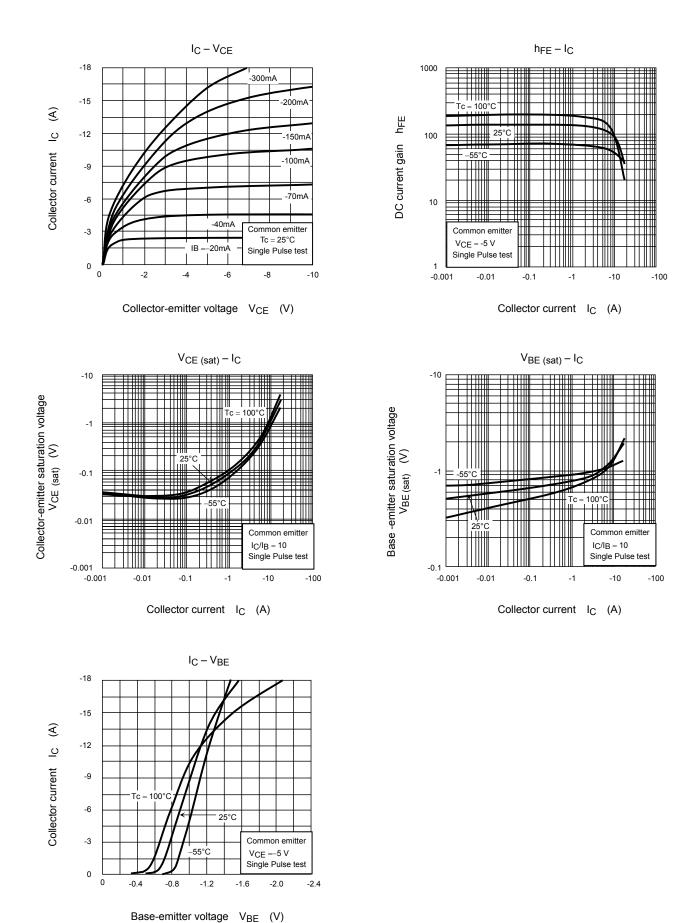


Note 1: Marking for identifying the indication of product Labels [[G]]/RoHS COMPATIBLE or [[G]]/RoHS [[Pb]]

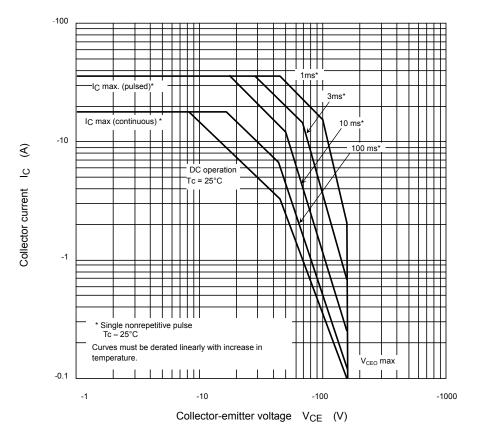
Please contact your TOSHIBA sales representative for details as to environmental matters such as the RoHS compatibility of Product.

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.

TOSHIBA



Safe Operating Area



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