

SEMICONDUCTOR  
**TOSHIBA**  
 TECHNICAL DATA

TOSHIBA TRANSISTOR  
**2SA1553**  
 SILICON PNP TRIPLE DIFFUSED TYPE

(2SA1553)

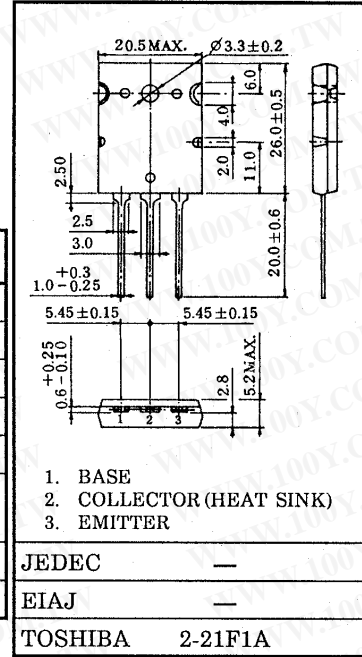
POWER AMPLIFIER APPLICATIONS.

- Complementary to 2SC4029
- Recommend for 120W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V <sub>CB0</sub>	-230	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-230	V
Emitter-Base Voltage	V <sub>EB0</sub>	-5	V
Collector Current	I <sub>C</sub>	-15	A
Base Current	I <sub>B</sub>	-1.5	A
Collector Power Dissipation (T <sub>c</sub> = 25°C)	P <sub>C</sub>	150	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	-55~150	°C

Unit in mm



Weight : 9.75g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I <sub>CBO</sub>	V <sub>CB</sub> = -230V, I <sub>E</sub> = 0	—	—	-5.0	μA
Emitter Cut-off Current	I <sub>EBO</sub>	V <sub>EB</sub> = -5V, I <sub>C</sub> = 0	—	—	-5.0	μA
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> = -50mA, I <sub>B</sub> = 0	-230	—	—	V
DC Current Gain	h <sub>FE(1)</sub> (Note)	V <sub>CE</sub> = -5V, I <sub>C</sub> = -1A	55	—	160	
	h <sub>FE(2)</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -7A	35	60	—	
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = -8A, I <sub>B</sub> = -800mA	—	-1.5	-3.0	V
Base-Emitter Voltage	V <sub>BE</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -7A	—	-1.0	-1.5	V
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> = -5V, I <sub>C</sub> = -1A	—	25	—	MHz
Collector Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> = -10V, I <sub>E</sub> = 0, f = 1MHz	—	470	—	pF

Note : h<sub>FE(1)</sub> Classification R : 55~110, O : 80~160

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