TOSHIBA 2SA1943

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

2 S A 1 9 4 3

POWER AMPLIFIER APPLICATIONS

Complementary to 2SC5200

Recommended for 100W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	VCBO	-230	V
Collector-Emitter Voltage	v_{CEO}	-230	V
Emitter-Base Voltage	v_{EBO}	-5	V
Collector Current	$I_{\mathbf{C}}$	-15	A
Base Current	$I_{\mathbf{B}}$	-1.5	Α
Collector Power Dissipation (Tc=25°C)	PC	150	W
Junction Temperature	Tj	150	°C
Storage Temperature Range	T _{stg}	-55~1 50	°C

Unit in mm ø3.3 ± 0.2 20.5MAX 5.45 ± 0.15 BASE COLLECTOR (HEAT SINK) 3. EMITTER **JEDEC EIAJ** TOSHIBA 2-21F1A

Weight: 9.75g (Typ.)

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -230V, I_{E} = 0$	-	_	-5.0	μ A
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_{C} = 0$	_	_	-5.0	μ A
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{C} = -50 \text{mA}, I_{B} = 0$	-230	_	_	V
DC Current Gain	hFE (1) (Note)	$V_{CE} = -5V, I_{C} = -1A$	55	_	160	
	h _{FE (2)}	$V_{CE} = -5V$, $I_{C} = -7A$	35	60	_	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_C = -8A, I_B = -0.8A$	_	-1.5	-3.0	V
Base-Emitter Voltage	$V_{ m BE}$	$V_{CE} = -5V$, $I_{C} = -7A$	_	-1.0	-1.5	V
Transition Frequency	$ m f_{T}$	$V_{CE} = -5V, I_{C} = -1A$	_	30	_	MHz
Collector Output Capacitance	$C_{ m ob}$	$V_{CB} = -10V, I_{E} = 0, f = 1MHz$	_	360	_	pF

Note: hFE(1) Classification $R:55\sim110, O:80\sim160$

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