TOSHIBA 2SA1942

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

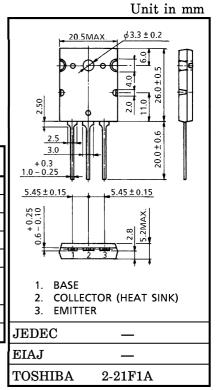
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POWER AMPLIFIER APPLICATIONS.

- Complementary to 2SC5199
- Recommend for 80W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	VCBO	-160	V
Collector-Emitter Voltage	v_{CEO}	-160	V
Emitter-Base Voltage	$V_{ m EBO}$	-5	V
Collector Current	$I_{\mathbf{C}}$	-12	A
Base Current	$I_{\mathbf{B}}$	-1.2	A
Collector Power Dissipation (Tc=25°C)	PC	120	W
Junction Temperature	$T_{\rm j}$	150	°C
Storage Temperature Range	$T_{ m stg}$	-55~150	°C



Weight: 9.75g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -160V, I_{E} = 0$	_	_	-5.0	μ A
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB} = -5V, I_{C} = 0$	_	_	-5.0	μ A
Collector-Emitter Breakdown Voltage	V _(BR) CEO	$I_{C} = -50 \text{mA}, I_{B} = 0$	-160	_	_	v
DC Current Gain	hFE (1) (Note)	$V_{CE} = -5V, I_{C} = -1A$	55	_	160	
	h _{FE (2)}	$V_{CE} = -5V, I_{C} = -6A$	35	80	_	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_C = -8A, I_B = -0.8A$	_	-0.9	-2.5	V
Base-Emitter Voltage	$ m V_{BE}$	$V_{CE} = -5V, I_{C} = -6A$	_	-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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