TOSHIBA 2SA949

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

2 S A 9 4 9

DRIVER STAGE AUDIO AMPLIFIER APPLICATIONS. HIGH VOLTAGE SWITCHING APPLICATIONS.

High Breakdown Voltage : $V_{CEO} = -150V$

Low Output Capacitance $: C_{ob} = 5.0 pF (Max.)$

High Transition Frequency: f_T=120MHz (Typ.)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	-150	V
Collector-Emitter Voltage	v_{CEO}	-150	V
Emitter-Base Voltage	$V_{ m EBO}$	- 5	V
Collector Current	$I_{\mathbf{C}}$	-50	mA
Base Current	$I_{\mathbf{B}}$	5	mA
Collector Power Dissipation	PC	800	mW
Junction Temperature	T _j	1 50	°C
Storage Temperature Range	${ m T_{stg}}$	-55~1 50	°C

Unit in mm 5.1 MAX 0.75 MAX 1.0 MAX. 0.80 MAX 0.60 MAX **EMITTER** COLLECTOR 3. BASE **JEDEC** TO-92MOD **EIAJ TOSHIBA** 2-5J1A

Weight: 0.36g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT		
Collector Cut-off Current	I_{CBO}	$V_{CB} = -150V, I_{E} = 0$	_	_	-0.1	μ A		
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB} = -5V, I_C = 0$			-0.1	μ A		
DC Current Gain	hFE (Note)	$V_{CE} = -5V, I_{C} = -10mA$	70	_	240			
Collector-Emitter Saturation Voltage	V _{CE(sat)}	$I_{C} = -10 \text{mA}, I_{B} = -1 \text{mA}$	_	_	-0.8	V		
Base-Emitter Voltage	$ m V_{BE}$	$V_{CE} = -5V, I_{C} = -30mA$	_	_	-0.9	V		
Transition Frequency	$ m f_{T}$	$V_{CE} = -30V, I_{C} = -10mA$	_	120		MHz		
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_{E} = 0, f = 1MHz$	_	4.0	5.0	pF		

Note: hFE Classification $O: 70\sim140, Y: 120\sim240$

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