#### TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

# 2 S A 1 9 4 1

#### POWER AMPLIFIER APPLICATIONS

- Complementary to 2SC5198
- Recommend for 70W High Fidelity Audio Frequency Amplifier Output Stage

### MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$v_{CBO}$	-140	V
Collector-Emitter Voltage	$v_{CEO}$	-140	V
Emitter-Base Voltage	$v_{\mathrm{EBO}}$	-5	V
Collector Current	$I_{\mathbf{C}}$	-10	A
Base Current	$I_{\mathbf{B}}$	-1	A
Collector Power Dissipation (Tc=25°C)	PC	100	w
Junction Temperature	$T_{j}$	150	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~150	°C

2-16C1A

Weight: 4.7g (Typ.)

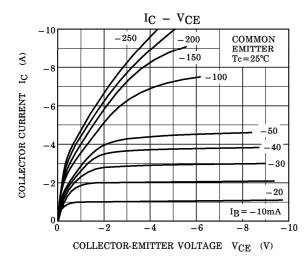
TOSHIBA

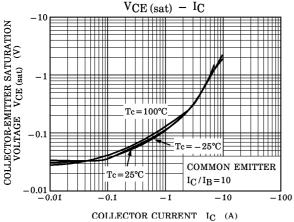
## ELECTRICAL CHARACTERISTICS (Tc = 25°C)

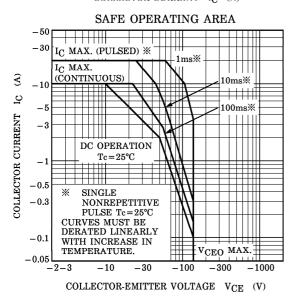
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -140V, I_{E} = 0$	<u> </u>	_	-5.0	$\mu$ A
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB} = -5V, I_{C} = 0$	_	_	-5.0	$\mu$ A
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{C} = -50 \text{mA}, I_{B} = 0$	-140	_	_	V
DC Current Gain	hFE (1) (Note)	$V_{CE} = -5V, I_{C} = -1A$	55	_	160	
	h <sub>FE (2)</sub>	$V_{CE} = -5V$ , $I_{C} = -5A$	35	83	_	
Collector-Emitter Saturation Voltage	V <sub>CE</sub> (sat)	$I_{C} = -7A, I_{B} = -0.7A$	_	-0.8	-2.0	V
Base-Emitter Voltage	$V_{ m BE}$	$V_{CE} = -5V$ , $I_{C} = -5A$	_	-1.0	-1.5	V
Transition Frequency	$ m f_{T}$	$V_{CE} = -5V$ , $I_{C} = -1A$	_	30	_	MHz
Collector Output Capacitance	$C_{ m ob}$	$V_{CB} = -10V, I_E = 0, f = 1MHz$	_	320	_	pF

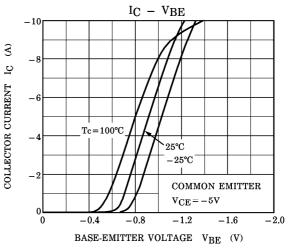
(Note):  $h_{FE(1)}$  Classification R: 55~110, O: 80~160

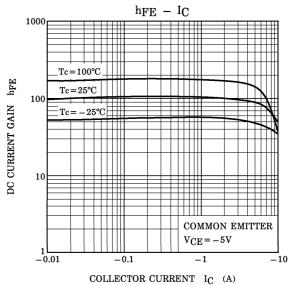
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