TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

2 S A 1 9 8 6

POWER AMPLIFIER APPLICATIONS

Complementary to 2SC5358

Recommend for 80W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	v_{CBO}	-230	V
Collector-Emitter Voltage	VCEO	-230	V
Emitter-Base Voltage	$v_{ m EBO}$	-5	V
Collector Current	$I_{\mathbf{C}}$	-15	A
Base Current	$I_{\mathbf{B}}$	-1.5	A
Collector Power Dissipation (Tc=25°C)	PC	150	w
Junction Temperature	T_{j}	150	°C
Storage Temperature Range	$T_{ m stg}$	-55~150	°C

Unit in mm $Ø3.2 \pm 0.2$ 2.0±0.3 5.45 ± 0.2 5.45 ± 0.2 99 BASE COLLECTOR (HEAT SINK) **EMITTER JEDEC EIAJ**

Weight: 4.7g (Typ.)

2-16C1A

TOSHIBA

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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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	$I_{ m EBO}$	$V_{EB} = -5V, I_{C} = 0$	-	_	-5.0	μ A
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{C} = -50 \text{mA}, I_{B} = 0$	-230	_	_	V
DC Current Gain	h _{FE (1)} (Note)	$V_{CE} = -5V, I_{C} = -1A$	55	_	160	_
	h _{FE} (2)	$V_{CE} = -5V$, $I_{C} = -7A$	35	70	_	
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_{ob}	$V_{CB} = -10V, I_{E} = 0, f = 1MHz$	_	360	_	pF

(Note) h_{FE} (1) Classification R: $55\sim110$, O: $80\sim160$

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