TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

2SA1987

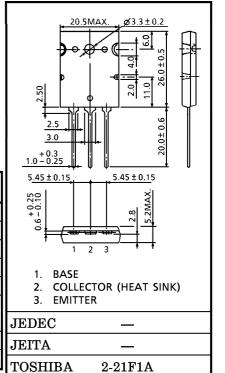
POWER AMPLIFIER APPLICATIONS

- High Collector Voltage : V_{CEO} = −230V (Min.)
- Complementary to 2SC5359
- Recommend for 100W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	v_{CBO}	-230	V
Collector-Emitter Voltage	v_{CEO}	-230	V
Emitter-Base Voltage	$V_{ m EBO}$	-5	V
Collector Current	$I_{\mathbf{C}}$	-15	A
Base Current	$I_{\mathbf{B}}$	-1.5	Α
Collector Power Dissipation (Tc=25°C)	PC	180	w
Junction Temperature	T_{j}	150	$^{\circ}\mathrm{C}$
Storage Temperature Range	$T_{ m stg}$	-55~150	°C

Unit in mm



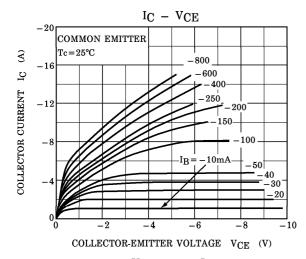
Weight: 9.75g (Typ.)

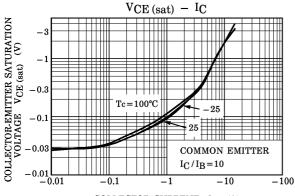
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

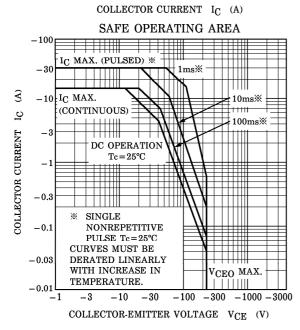
ELECTRICATE CITATION CTEMBRICS	(25 %)					
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -230V, I_{E} = 0$	_	_	-5.0	μ A
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$	_	_	-5.0	μ A
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{\rm C} = -50 \mathrm{mA}, \; I_{\rm B} = 0$	-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	70	_	
Collector-Emitter	77.0-	$I_C = -8A, I_B = -0.8A$		-1.5	-3.0	V
Saturation Voltage	VCE (sat)					
Base-Emitter Voltage	$ m V_{BE}$	$V_{CE} = -5V, I_{C} = -7A$	_	-1.0	-1.5	V
Transition Frequency	$\mathbf{f_{T}}$	$V_{CE} = -5V$, $I_{C} = -1A$	_	30	_	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_{E} = 0, f = 1MHz$	_	360	_	рF

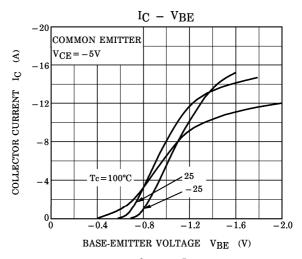
(Note) $h_{FE(1)}$ Classification $R:55\sim110$, $O:80\sim160$

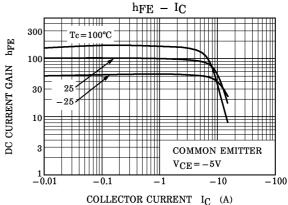
1 2001-10-29











2 2001-10-29

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