Unit in mm

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE

2 S B 1 6 4 0

AUDIO FREQUENCY POWER AMPLIFIER

• Low Saturation Voltage : $V_{CE (sat)} = -1.5V$ (Max.) $(I_C = -2A, I_B = -0.2A)$

- Collector Metal (Fin) is Covered with Mold Region
- Complementary to 2SD2525

MAXIMUM RATINGS (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	v_{CBO}	-60	V
Collector-Emitter Voltage	v_{CEO}	-60	V
Emitter-Base Voltage	$V_{ m EBO}$	– 7	V
Collector Current	$I_{\mathbf{C}}$	-3	A
Base Current	$I_{\mathbf{B}}$	-0.5	A
Collector Power Dissipation	PC	1.8	W
Junction Temperature	T_{j}	150	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~150	°C

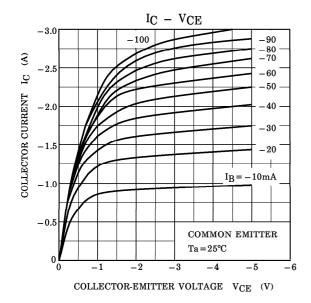
10 ± 0.2 0.5 ± 0.10 1.4 0.5 ± 0.10 0.5 ± 0.10 1.2 1. BASE 2. COLLECTOR 3. EMITTER JEDEC JEITA TOSHIBA 2-10T1A

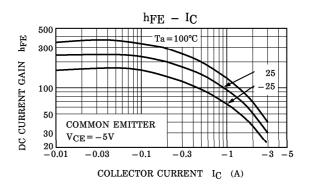
Weight: 1.5g (Typ.)

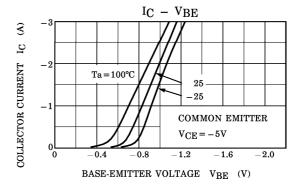
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

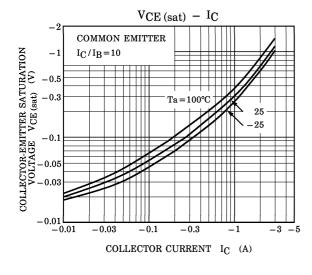
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current	I_{CBO}	$V_{CB} = -60V, I_{E} = 0$	_		-10	μ A	
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB} = -7V, I_{C} = 0$	_	_	-10	μ A	
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{C} = -50 \text{mA}, I_{B} = 0$	-60	_	_	V	
DC Current Gain	h _{FE (1)}	$V_{CE} = -5V, I_{C} = -0.5A$	100	_	320		
	$_{ m h_{FE}(2)}$	$V_{CE} = -5V, I_{C} = -2A$	15	_	_		
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_{C} = -2A, I_{B} = -0.2A$	_	-1.0	-1.5	V	
Base-Emitter Voltage	$ m V_{BE}$	$V_{CE} = -5V, I_{C} = -0.5A$	_	-0.75	-1.0	V	
Transition Frequency	$ m f_T$	$V_{CE} = -5V, I_{C} = -0.5A$	_	9	_	MHz	
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_{E} = 0, f = 1MHz$	_	50	_	рF	

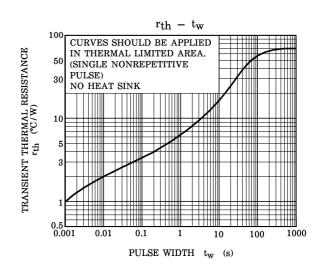
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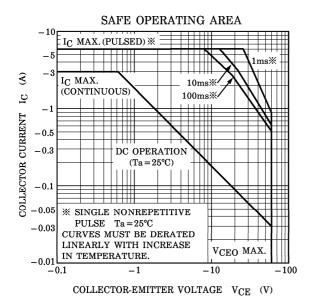


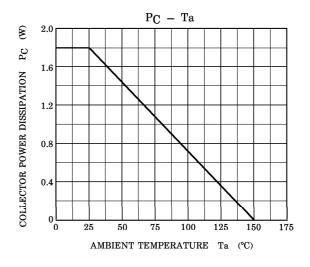






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