Unit in mm

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE

2 S A 1 8 3 7

POWER AMPLIFIER APPLICATIONS

DRIVER STAGE AMPLIFIER APPLICATIONS

- High Transition Frequency: f_T=70MHz (Typ.)
- Complementary to 2SC4793

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		$I_{\mathbf{C}}$	-1	Α	
Base Current		$I_{\mathbf{B}}$	-0.1	A	
Collector Power	Ta=25°C	Da	2.0	w	
Dissipation	$Tc = 25^{\circ}C$	$P_{\mathbf{C}}$	20		
Junction Temperature		$\mathrm{T_{j}}$	150	°C	
Storage Temperature Range		$\mathrm{T_{stg}}$	-55~150	°C	

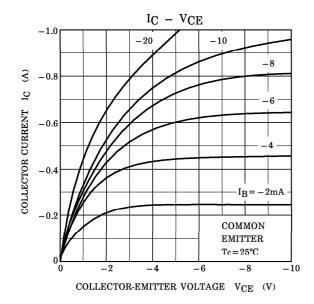
1. BASE 2. COLLECTOR 3. EMITTER JEDEC JEITA TOSHIBA 2.7±0.2 2

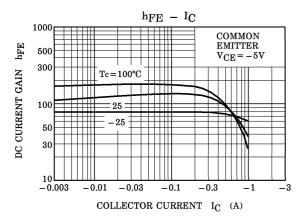
Weight: 1.7g (Typ.)

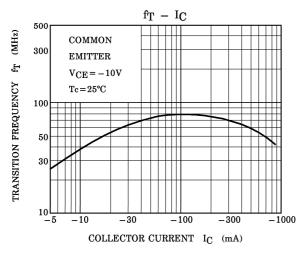
ELECTRICAL CHARACTERISTICS (Tc = 25°C)

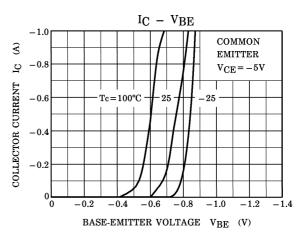
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -230V, I_{E} = 0$	_	_	-1.0	μ A
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB} = -5V, I_C = 0$	_	_	-1.0	μ A
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	$I_{C} = -10 \text{mA}, I_{B} = 0$	-230	_	_	V
DC Current Gain	$h_{ extbf{FE}}$	$V_{CE} = -5V, I_{C} = -100 \text{mA}$	100		320	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_{C} = -500 \text{mA}, I_{B} = -50 \text{mA}$	_	_	-1.5	V
Base-Emitter Voltage	$ m V_{BE}$	$V_{CE} = -5V, I_{C} = -500 \text{mA}$	_	_	-1.0	V
Transition Frequency	$ m f_{T}$	$V_{CE} = -10V, I_{C} = -100mA$	_	70	_	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_{C} = 0, f = 1MHz$	_	30	_	pF

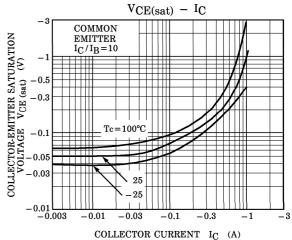
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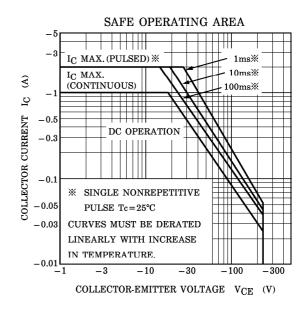












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