Unit in mm

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL (PCT PROCESS)

2SA1588

AUDIO FREQUENCY LOW POWER AMPLIFIER APPLICATIONS

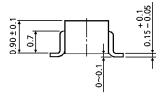
DRIVER STAGE AMPLIFIER APPLICATIONS

SWITCHING APPLICATIONS

- Excellent hFE Linearity
 - : $h_{FE(2)} = 25$ (Min.) at $V_{CE} = -6V$, $I_{C} = -400 mA$
- Complementary to 2SC4118

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	-35	V
Collector-Emitter Voltage	v_{CEO}	-30	V
Emitter-Base Voltage	$ m V_{EBO}$	-5	V
Collector Current	$I_{\mathbf{C}}$	-500	mA
Base Current	$I_{\mathbf{B}}$	-50	mA
Collector Power Dissipation	$P_{\mathbf{C}}$	100	mW
Junction Temperature	T_{j}	125	$^{\circ}\mathrm{C}$
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~125	°C



1. BASE
2. EMITTER
USM
3. COLLECTOR

 2.0 ± 0.2

JEDEC —
EIAJ SC-70
TOSHIBA 2-2E1A

Weight: 0.006g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

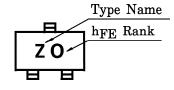
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	$V_{CB} = -35V, I_{E} = 0$	_	_	-0.1	μ A
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_{C} = 0$	_	_	-0.1	μ A
IDC Current Gain (Note)	h _{FE (1)}	$V_{CE} = -1V, I_{C} = -100 \text{mA}$	70	_	240	
	h _{FE} (2)	$V_{CE} = -6V, I_{C} = -400 \text{mA}$	25	_	_	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_C = -100 \text{mA}, I_B = -10 \text{mA}$		-0.1	-0.25	V
Base-Emitter Voltage	$ m V_{BE}$	$V_{CE} = -1V, I_{C} = -100 \text{mA}$	_	-0.8	-1.0	V
Transition Frequency	$ m f_{T}$	$V_{CE} = -6V, I_{C} = -20mA$		200	_	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -6V, I_{E} = 0, f = 1MHz$	_	13		pF

Note: $h_{FE(1)}$ Classification O:70

 $O: 70 \sim 140, Y: 120 \sim 240$

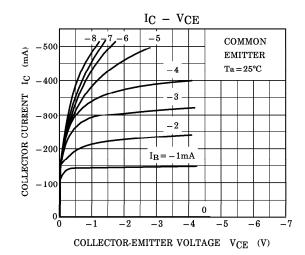
 $h_{FE(2)}$ Classification O: 25 (Min.), Y: 40 (Min.)

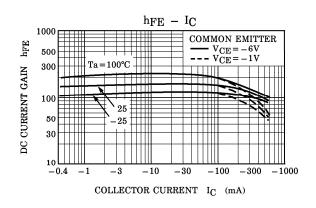
Marking



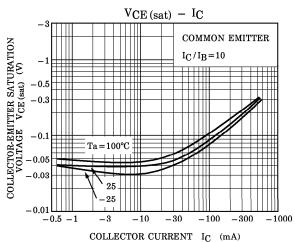
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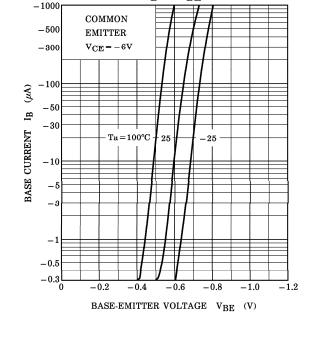
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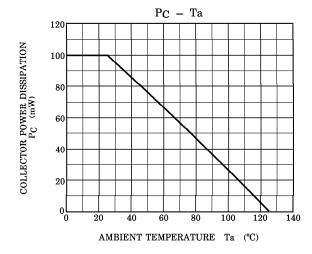




 $I_{B} - V_{BE}$







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