TOSHIBA 2SB907

TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2 S B 9 0 7

SWITCHING APPLICATIONS HAMMER DRIVE, PULSE MOTOR DRIVE APPLICATIONS POWER AMPLIFIER APPLICATIONS

High DC Current Gain

:
$$h_{FE(1)} = 2000$$
 (Min.) ($V_{CE} = -2 V$, $I_{C} = -1 A$)

Low Saturation Voltage

:
$$V_{CE (sat)} = -1.5 V (Max.) (I_{C} = -2 A)$$

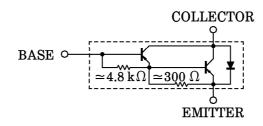
Complementary to 2SD1222.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERIST	SYMBOL	RATING	UNIT		
Collector-Base Voltage	v_{CBO}	-60	V		
Collector-Emitter Voltage	v_{CEO}	-40	V		
Emitter-Base Voltage	$ m v_{EBO}$	-5	V		
Collector Current	$I_{\mathbf{C}}$	-3	A		
Base Current	$I_{\mathbf{B}}$	-0.3	A		
Collector Power	$Ta = 25^{\circ}C$	Da	1.0	w	
Dissipation	$Tc = 25^{\circ}C$	PC	15		
Junction Temperature	$T_{ m j}$	150	$^{\circ}\mathrm{C}$		
Storage Temperature Ran	$\mathrm{T_{stg}}$	-55~150	$^{\circ}\mathrm{C}$		

Unit in mm 0.6 ± 0.15 0.6MAX. (B) XAM8. 0.6MAX. 0.6 ± 0.15 0.95MAX. 0.6MAX 0.6 ± 0.15 BASE COLLECTOR (HEAT SINK) **EMITTER JEDEC** EIAJ TOSHIBA (A)2-7B1A (B)2-7B2A

EOUIVALENT CIRCUIT



961001EAA2

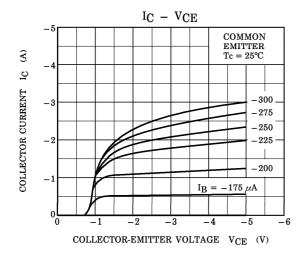
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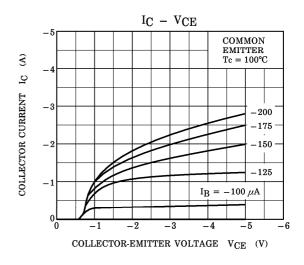
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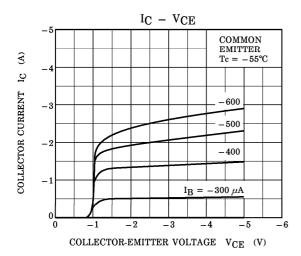
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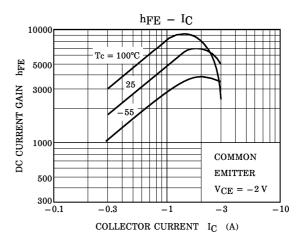
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

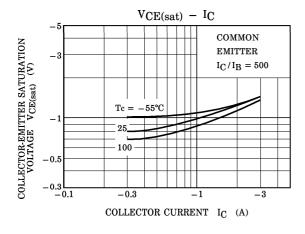
CHARA	ACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current		I_{CBO}	$V_{CB} = -60 \text{ V}, I_{E} = 0$	_	_	-20	μ A	
Emitter Cut-off Current		I_{EBO}	$V_{EB} = -5 \text{ V}, I_{C} = 0$	_	_	-2.5	mA	
Collector-Emitter Breakdown Voltage		V (BR) CEO	$I_{\rm C} = -25 {\rm mA}, I_{\rm B} = 0$	-40	_	_	V	
DC Current Gain		h _{FE (1)}	$V_{CE} = -2 V, I_{C} = -1 A$	2000	_	_		
		h _{FE} (2)	$V_{CE} = -2 V, I_{C} = -3 A$	1000	_	_		
Saturation	${\bf Collector\text{-}Emitter}$	V _{CE} (sat)	$I_C = -2 A$, $I_B = -4 mA$		_	-1.5	$\mid_{\mathrm{V}}\mid$	
Voltage	Base-Emitter	V _{BE} (sat)	$I_C = -2 A$, $I_B = -4 mA$		_	-2.0	\	
Switching Time	Turn-on Time	t_{on}	IB1 I IB2 IB2 OUTPUT CONTROL OF C	l	0.30	_		
	Storage Time	t _{stg}			0.60	_	μs	
	Fall Time	t_f		_	0.25	_		

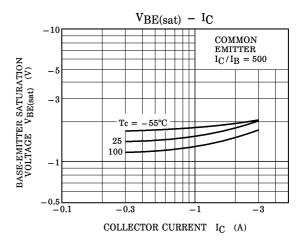


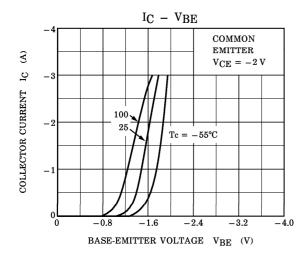


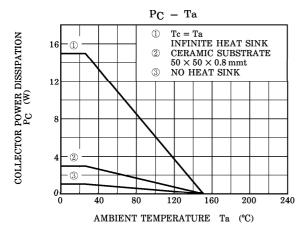


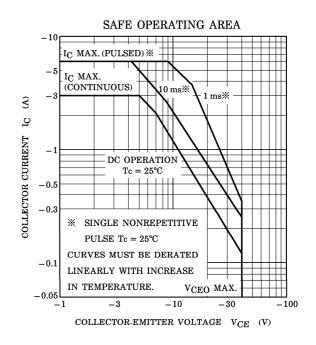












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