TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

2 S A 1 9 2 6

POWER AMPLIFIER APPLICATIONS.

POWER SWITCHING APPLICATIONS.

Low Collector Saturation Voltage

: $V_{CE (sat)} = -0.17V (Max.) (I_{C} = -1A)$

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	v_{CBO}	-80	V
Collector-Emitter Voltage	v_{CEO}	-80	V
Emitter-Base Voltage	$V_{ m EBO}$	-8	v
Collector Current	$I_{\mathbf{C}}$	_3	A
Base Current	$I_{\mathbf{B}}$	-1	Α
Collector Power Dissipation	PC	1000	mW
Junction Temperature	T_{j}	150	$^{\circ}\mathrm{C}$
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~150	°C

Unit in mm 3.8 2.7MAX 1.0 + 0.15 0.55 - 0.05 0.85 + 0.15 0.45 - 0.05 2.54 2.54 1.025 ± 0.5 BASE 2. COLLECTOR 3. EMITTER **JEDEC EIAJ**

2-7D101A

Weight: 0.2g

TOSHIBA

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -80V, I_{E} = 0$			-1.0	μ A
Emitter Cut-off Current	$ m I_{EBO}$	$V_{EB} = -8V, I_{C} = 0$	_	_	-1.0	μ A
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{C} = -10 \text{mA}, I_{B} = 0$	-80			V
DC Current Gain	h _{FE (1)}	$V_{CE} = -2V, I_{C} = -0.5A$	150	_	400	
	h _{FE (2)}	$V_{CE} = -2V, I_{C} = -1.5A$	40	_	_	
Collector-Emitter Saturation Voltage	V _{CE (sat)}	$I_{C} = -1A, I_{B} = -0.05A$	_		-0.17	V
Base-Emitter Saturation Voltage	V _{BE (sat)}	$I_C = -1A, I_B = -0.05A$			-1.2	V
Transition Frequency	$ m f_{T}$	$V_{CE} = -2V, I_{C} = -0.5A$		80		MHz
Collector Output Capacitance	C _{ob}	$V_{CB} = -10V, I_{E} = 0, f = 1MHz$		45	_	рF

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