TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE (PCT PROCESS)

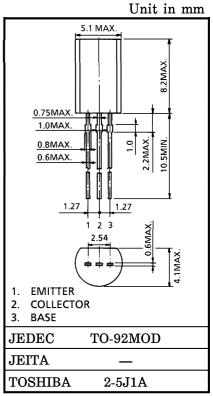
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POWER AMPLIFIER APPLICATIONS. POWER SWITCHING APPLICATIONS.

- Low Collector Saturation Voltage : $V_{CE(sat)} = -0.5V$ (Max.) ($I_C = -1A$)
- $\bullet \quad \text{ High Speed Switching Time} \, : \, t_{stg} \! = \! 1.0 \mu s \, (\text{Typ.})$
- Complementary to 2SC3328

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_{EBO}	-5	V
Collector Current	$I_{\mathbf{C}}$	-2	A
Base Current	$I_{\mathbf{B}}$	1	Α
Collector Power Dissipation	PC	900	mW
Junction Temperature	$T_{ m j}$	150	$^{\circ}\mathrm{C}$
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~150	°C



Weight: 0.36g (Typ.)

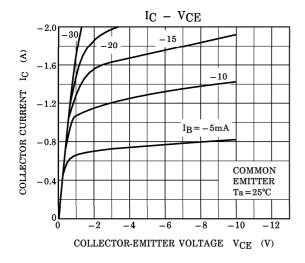
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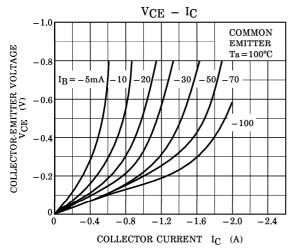
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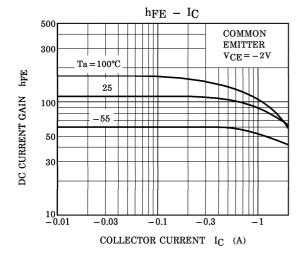
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

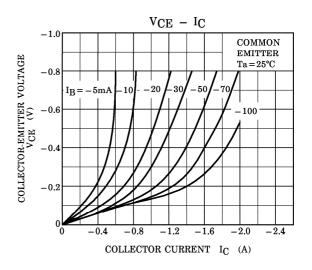
CHARAC	TERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-	off Current	ICBO	$V_{CB} = -80V, I_{E} = 0$	_	_	-1.0	μ A
Emitter Cut-of	ff Current	I _{EBO}	$V_{EB} = -5V, I_{C} = 0$	_	_	-1.0	μ A
Collector-Emit Breakdown Vo		V (BR) CEO	$I_{C} = -10 \text{mA}, I_{B} = 0$	-80	_	_	V
DC Current Gain		hFE (1) (Note)	$V_{CE} = -2V, I_{C} = -0.5A$	70	_	240	
		h _{FE} (2)	$V_{CE} = -2V, I_{C} = -1.5A$	40	_	_	
Collector-Emit Saturation Vo		V _{CE} (sat)	$I_C = -1A, I_B = -0.05A$	_	-0.2	-0.5	V
Base-Emitter Saturation Vo	ltage	V _{BE} (sat)	$I_{C} = -1A, I_{B} = -0.05A$	_	-0.9	-1.2	V
Transition Fre	quency	\mathbf{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	_	pF		
Switching Time	Turn-on Time	t _{on}	20μs INPUT IB1 OUTPUT IB2 IB2	_	0.2	_	
	Storage Time	t _{stg}		_	1.0	_	μ s
	Fall Time	t_f	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	_	0.2	_	

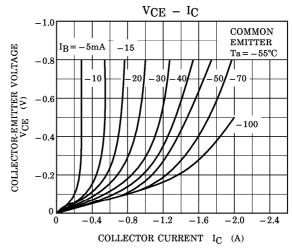
(Note): hFE(1) Classification O: 70~140, Y: 120~240

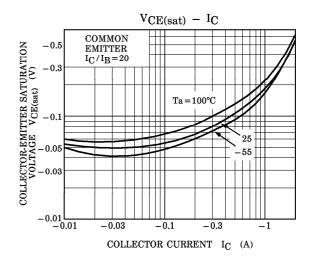




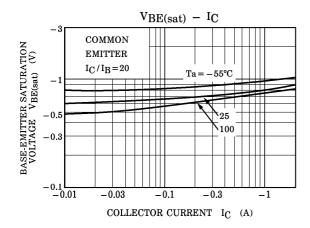


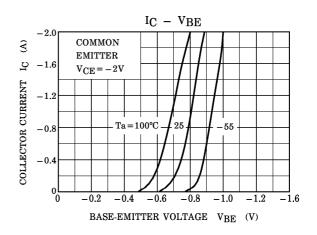


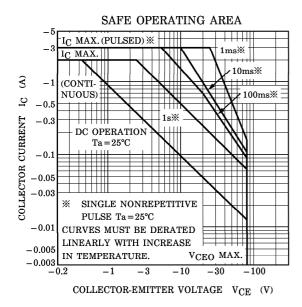


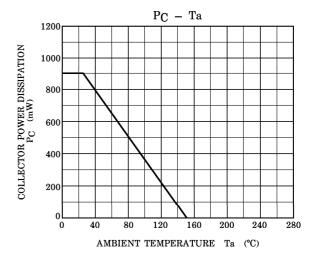


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