TOSHIBA TRANSISTOR SILICON PNP EPITAXIAL TYPE

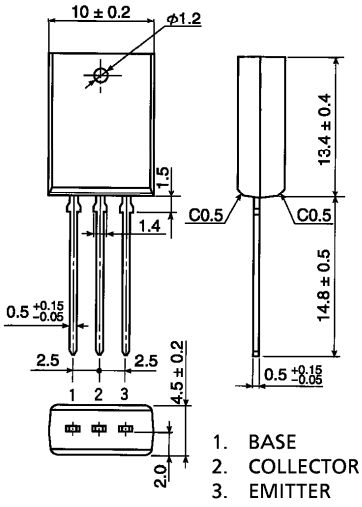
2SA1932

POWER AMPLIFIER APPLICATIONS

DRIVER STAGE AMPLIFIER APPLICATIONS

- High Transition Frequency : $f_T = 70MHz$ (Typ.)
- Complementary to 2SC5174

Unit in mm



JEDEC	—
JEITA	—
TOSHIBA	2-10T1A

Weight : 1.5g (Typ.)

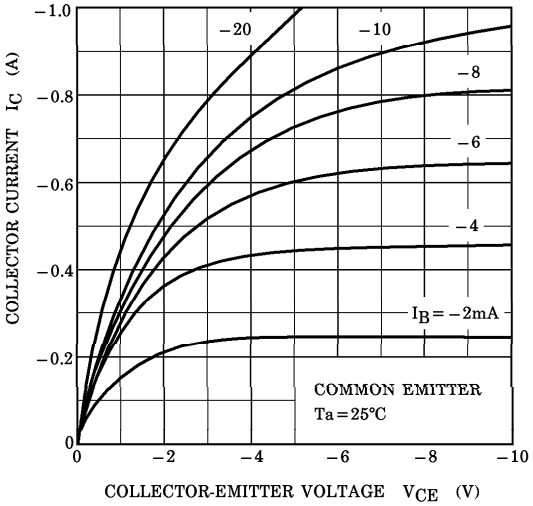
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	−230	V
Collector-Emitter Voltage	V_{CEO}	−230	V
Emitter-Base Voltage	V_{EBO}	−5	V
Collector Current	I_C	−1	A
Base Current	I_B	−0.1	A
Collector Power Dissipation	P_C	1.8	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	−55~150	°C

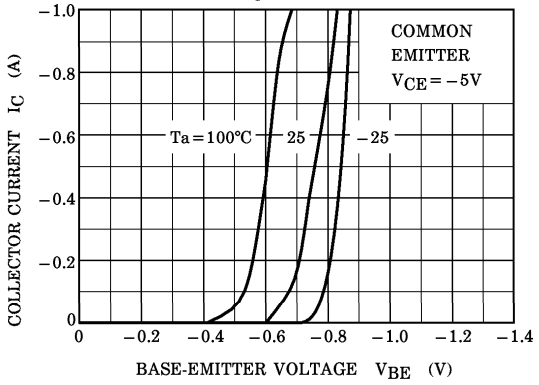
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -230V$, $I_E = 0$	—	—	−1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V$, $I_C = 0$	—	—	−1.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10mA$, $I_B = 0$	−230	—	—	V
DC Current Gain	h_{FE}	$V_{CE} = -5V$, $I_C = -100mA$	100	—	320	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500mA$, $I_B = -50mA$	—	—	−1.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5V$, $I_C = -500mA$	—	—	−1.0	V
Transition Frequency	f_T	$V_{CE} = -10V$, $I_C = -100mA$	—	70	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V$, $I_E = 0$, f = 1MHz	—	30	—	pF

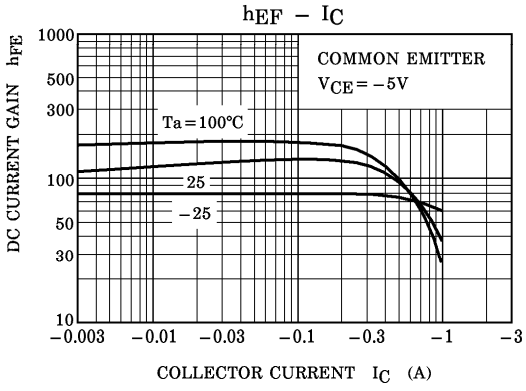
$I_C - V_{CE}$



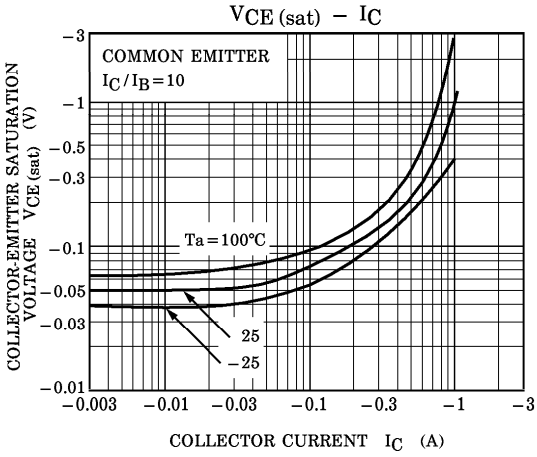
$I_C - V_{BE}$



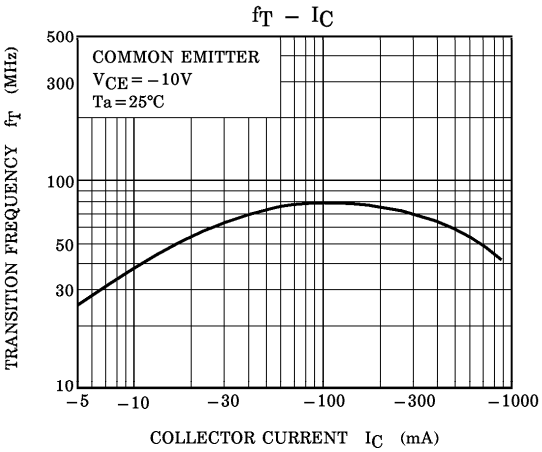
$h_{EF} - I_C$



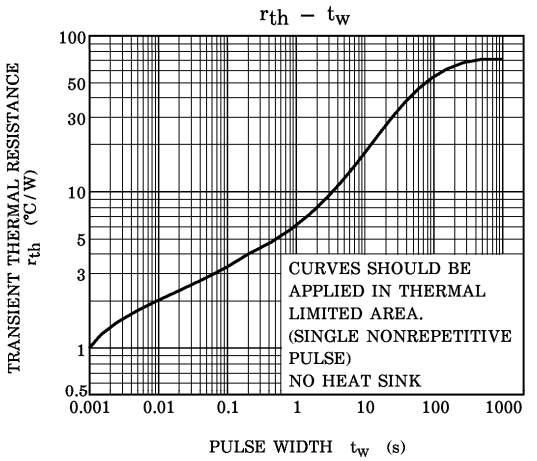
$V_{CE\,(sat)} - I_C$



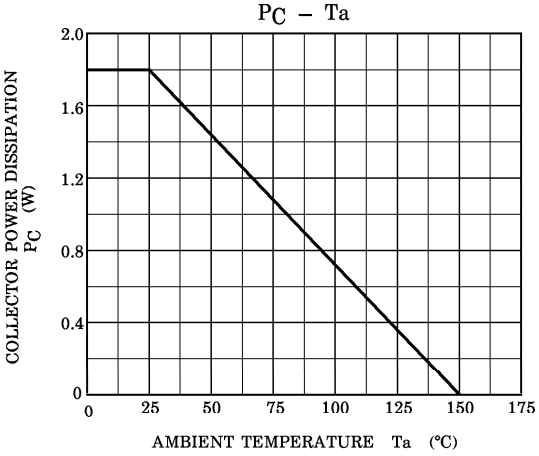
$f_T - I_C$



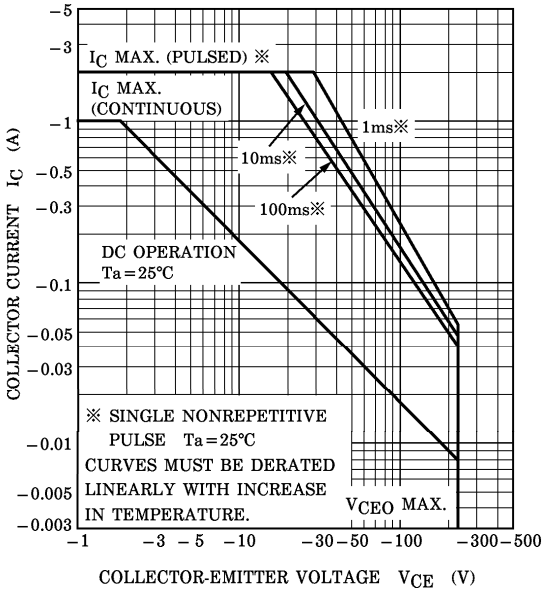
$r_{th} - t_w$



P_C – Ta



SAFE OPERATING AREA



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