

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE (PCT PROCESS)

2SA1432

HIGH VOLTAGE CONTROL APPLICATIONS

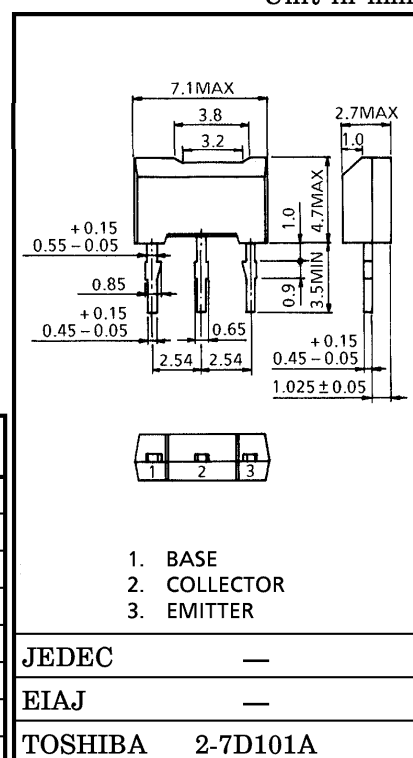
PLASMA DISPLAY, NIXIE TUBE DRIVER APPLICATIONS

CATHODE RAY TUBE BRIGHTNESS CONTROL APPLICATIONS

- High Voltage : $V_{CBO} = -300\text{ V}$, $V_{CEO} = -300\text{ V}$
- Low Saturation Voltage : $V_{CE(\text{sat})} = -0.5\text{ V (Max.)}$
- Small Collector Output Capacitance : $C_{ob} = 6\text{ pF (Typ.)}$
- Complementary to 2SC3672

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	−300	V
Collector-Emitter Voltage	V_{CEO}	−300	V
Emitter-Base Voltage	V_{EBO}	−8	V
Collector Current	I_C	−100	mA
Base Current	I_B	−20	mA
Collector Power Dissipation	P_C	1000	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	−55~150	°C

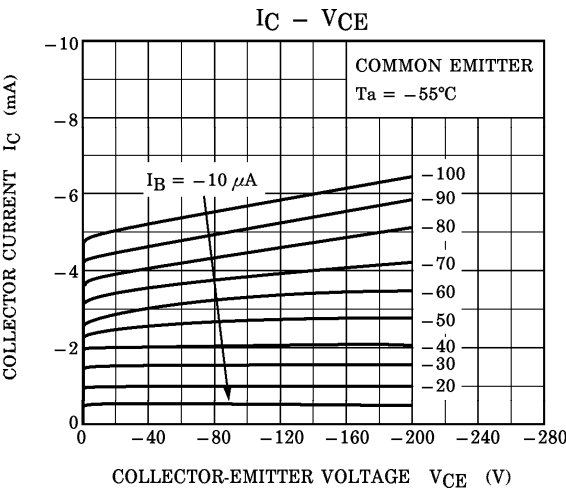
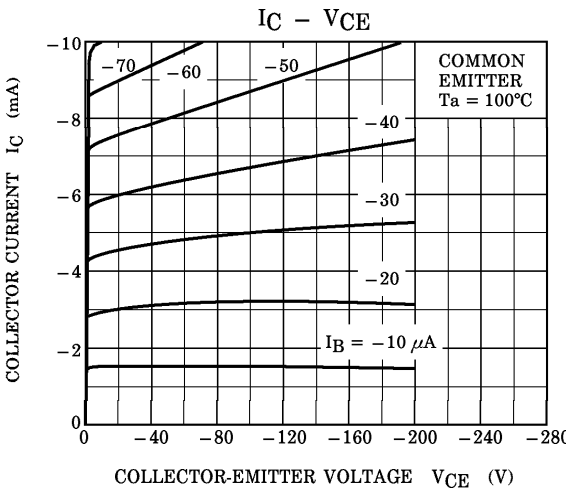
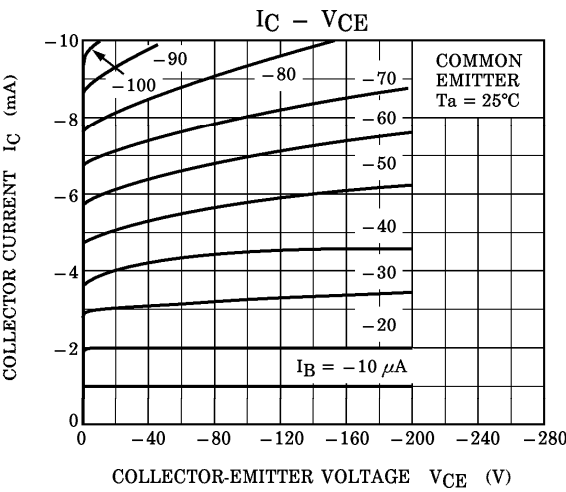
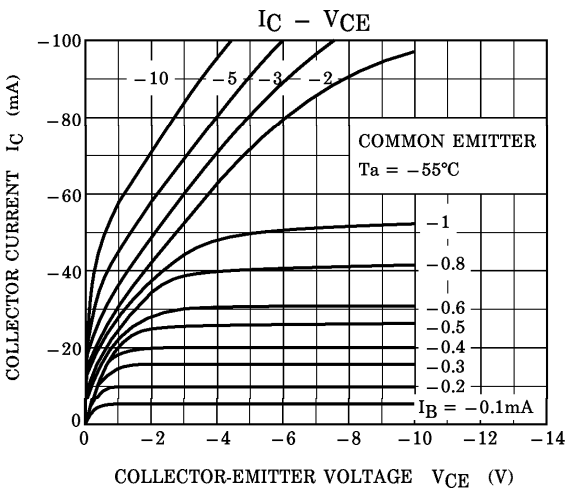
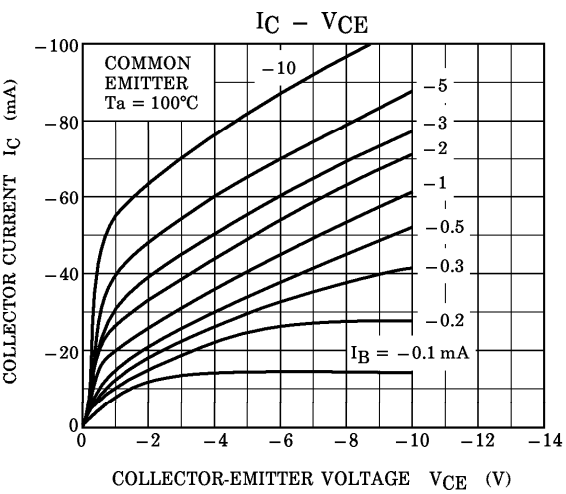
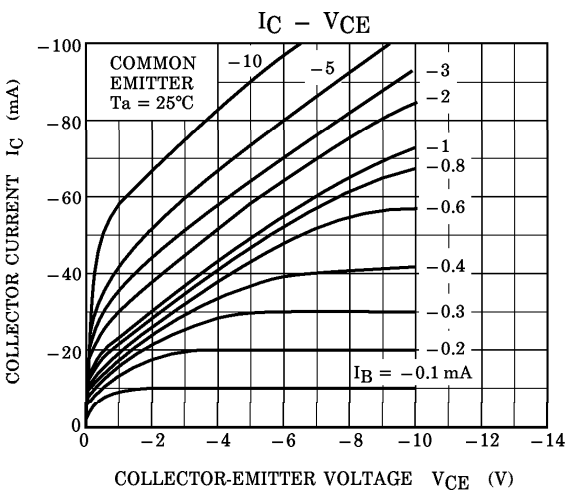


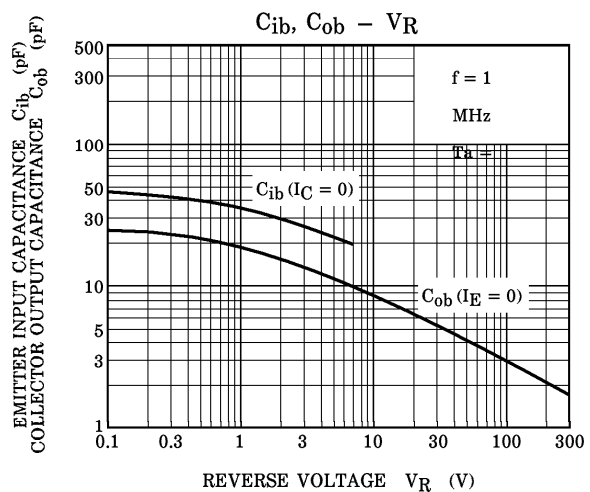
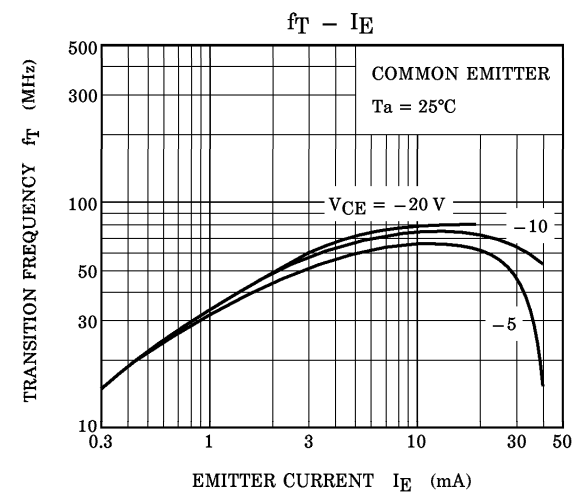
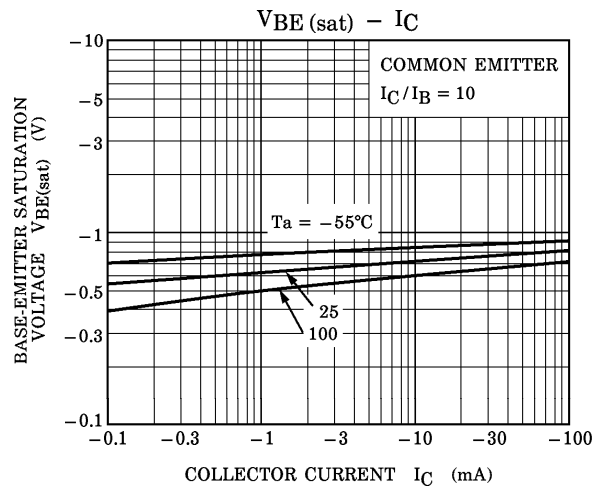
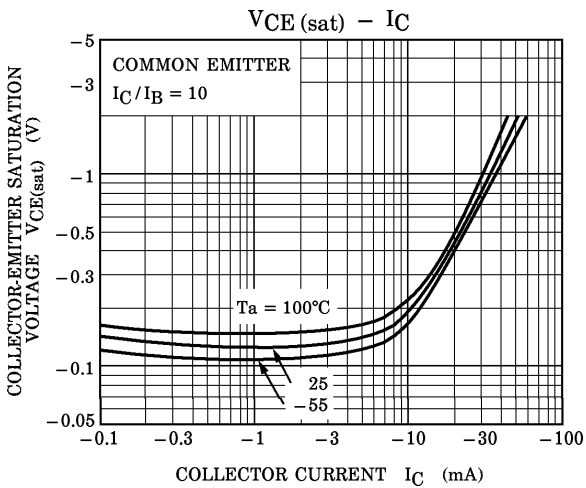
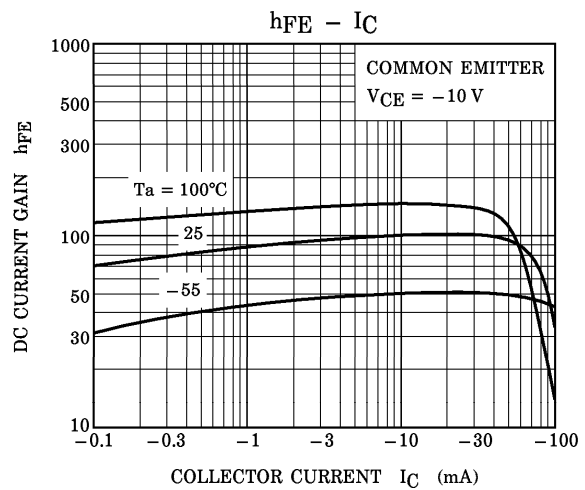
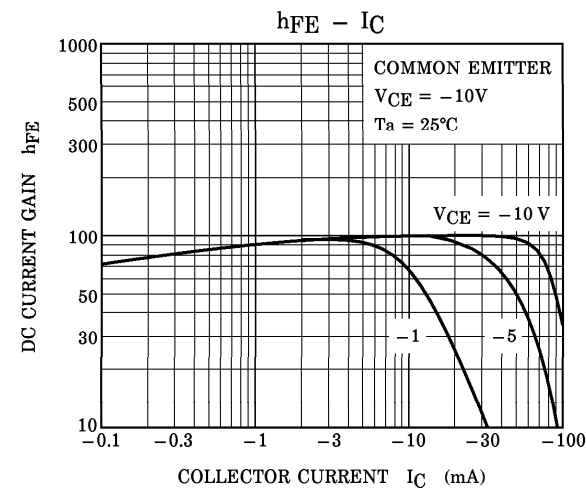
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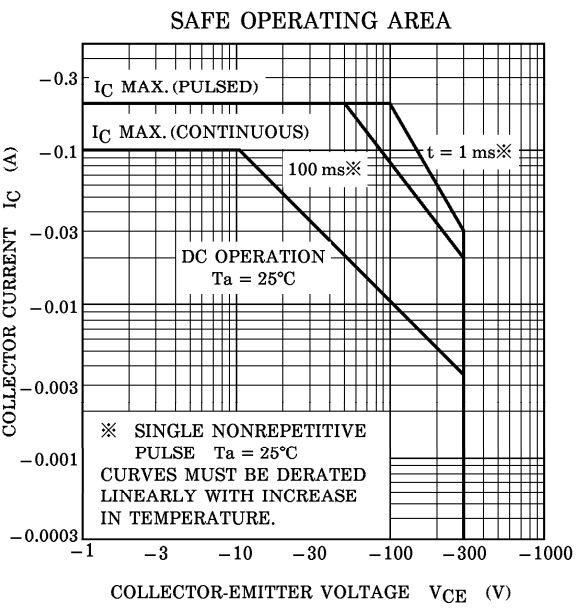
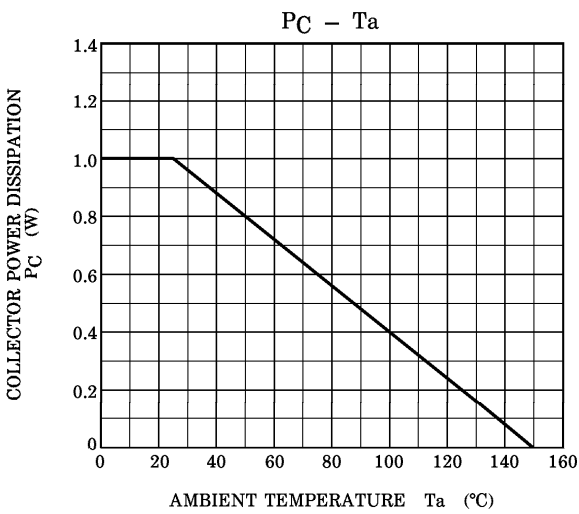
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -300\text{ V}, I_E = 0$	—	—	−0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -8\text{ V}, I_C = 0$	—	—	−0.1	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -0.1\text{ mA}, I_E = 0$	−300	—	—	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -1\text{ mA}, I_B = 0$	−300	—	—	V
DC Current Gain	$h_{FE}(1)$ (Note)	$V_{CE} = -10\text{ V}, I_C = -20\text{ mA}$	30	—	150	
	$h_{FE}(2)$	$V_{CE} = -10\text{ V}, I_C = -1\text{ mA}$	20	—	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -20\text{ mA}, I_B = -2\text{ mA}$	—	—	−0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -20\text{ mA}, I_B = -2\text{ mA}$	—	—	−1.2	V
Transition Frequency	f_T	$V_{CE} = -10\text{ V}, I_C = -20\text{ mA}$	40	60	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -20\text{ V}, I_E = 0, f = 1\text{ MHz}$	—	6	8	pF

(Note) : hFE (1) Classification R : 30~90, O : 50~150







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