

TOSHIBA TRANSISTOR SILICON PNP TRIPLE DIFFUSED TYPE (PCT PROCESS)

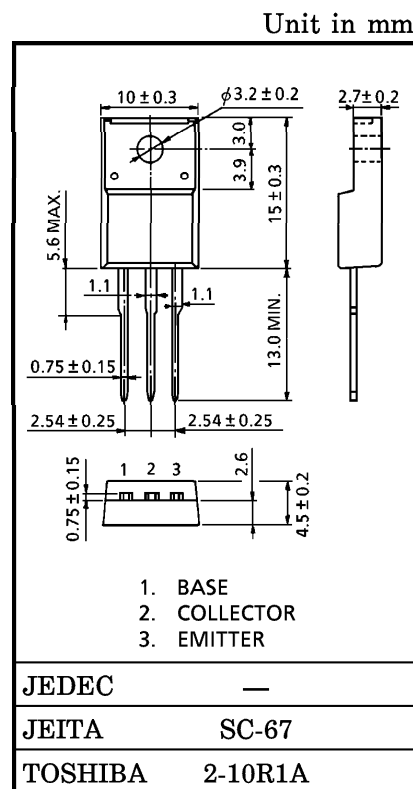
2SA940A

POWER AMPLIFIER APPLICATIONS
VERTICAL OUTPUT APPLICATIONS

- Complementary to 2SC2073A

MAXIMUM RATINGS ($T_c = 25^\circ\text{C}$)

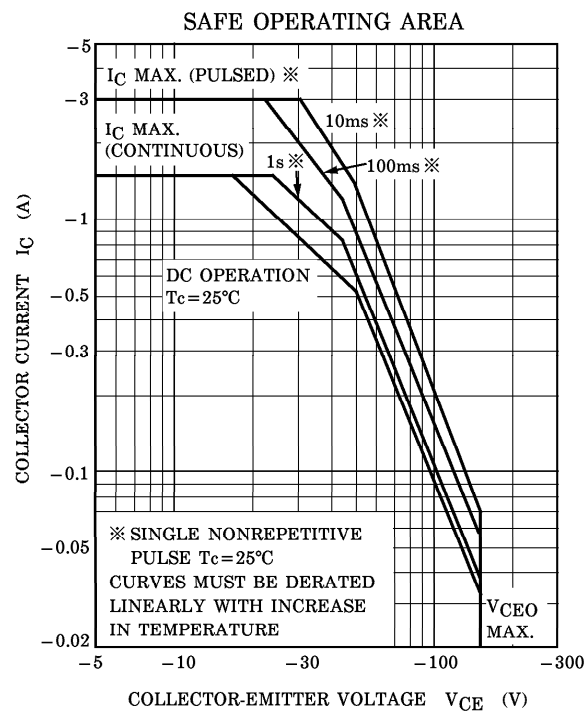
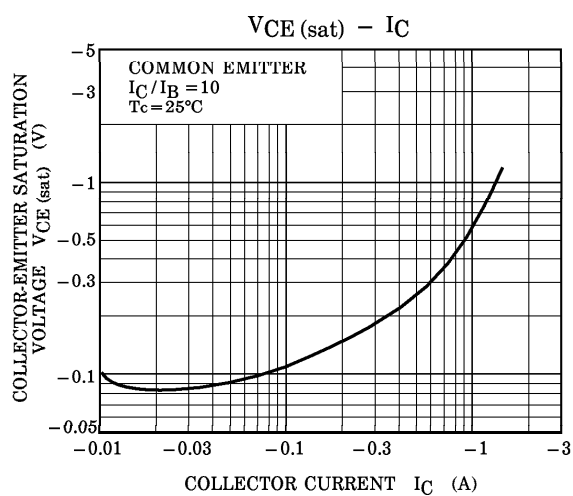
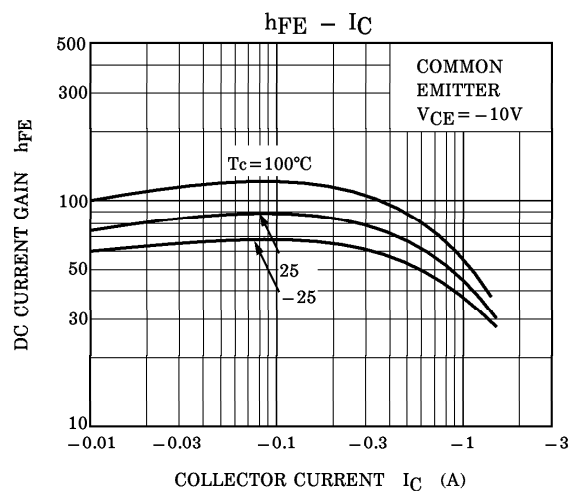
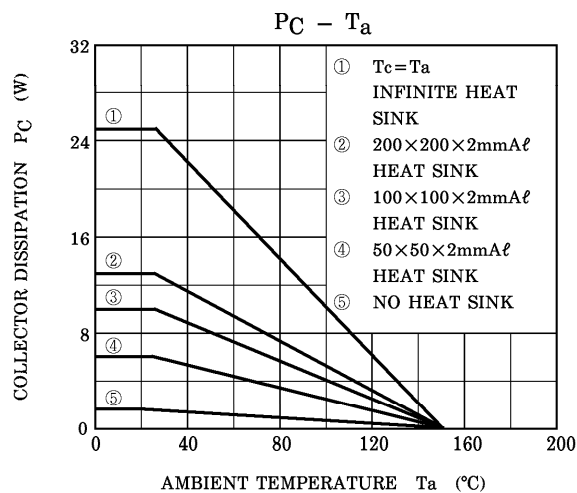
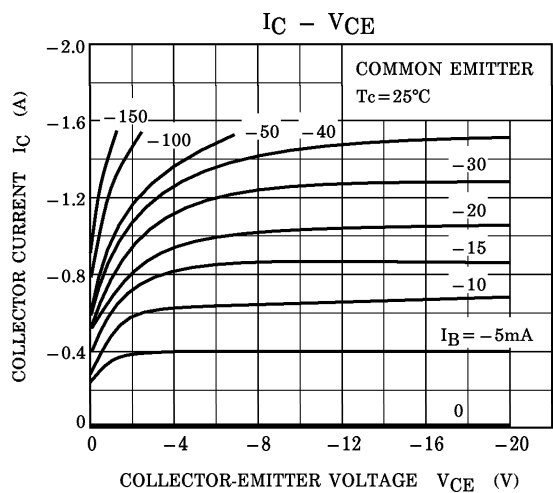
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CB0}	-150	V
Collector-Emitter Voltage	V_{CEO}	-150	V
Emitter-Base Voltage	V_{EB0}	-5	V
Collector Current	I_C	-1.5	A
Base Current	I_B	-0.5	A
Collector Power Dissipation	$T_a = 25^\circ\text{C}$ $T_c = 25^\circ\text{C}$	P_C	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$



Weight : 1.7g (Typ.)

ELECTRICAL CHARACTERISTICS ($T_c = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -120\text{V}, I_E = 0$	—	—	-10	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5\text{V}, I_C = 0$	—	—	-10	μA
DC Current Gain	h_{FE}	$V_{CE} = -10\text{V}, I_C = -500\text{mA}$	40	75	140	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}, I_B = -50\text{mA}$	—	—	-1.5	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -10\text{V}, I_C = -500\text{mA}$	-0.65	-0.75	-0.85	V
Transition Frequency	f_T	$V_{CE} = -10\text{V}, I_C = -500\text{mA}$	—	4	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$	—	55	—	pF



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