

TOSHIBA Transistor Silicon PNP Triple Diffused Type (PCT Process)

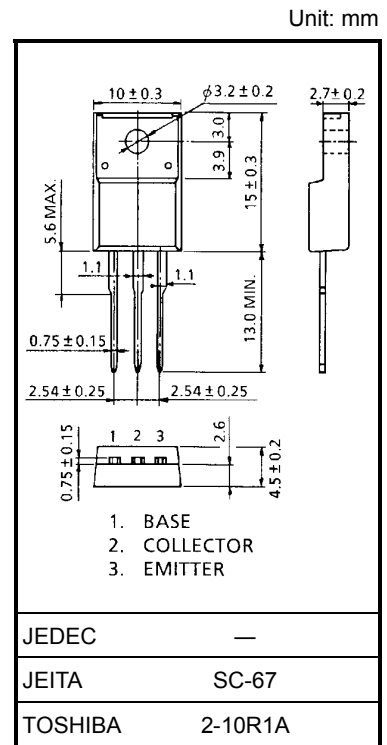
2SA940A

Power Amplifier Applications
Vertical Output Applications

- Complementary to 2SC2073A

Maximum Ratings (Tc = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-150	V
Collector-emitter voltage	V_{CEO}	-150	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_C	-1.5	A
Base current	I_B	-0.5	A
Collector power dissipation	P_C	Ta = 25°C	2.0
		Tc = 25°C	25
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55 to 150	°C

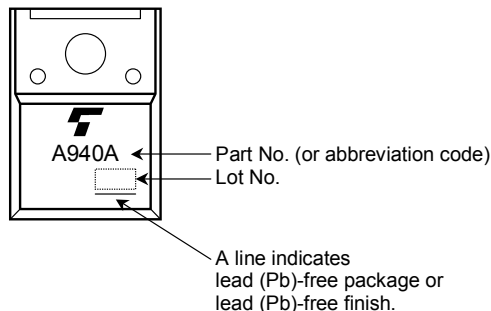


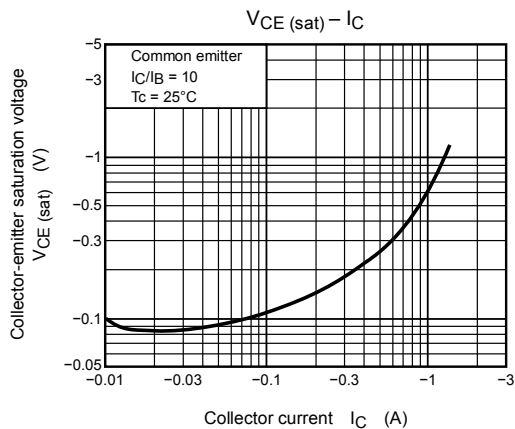
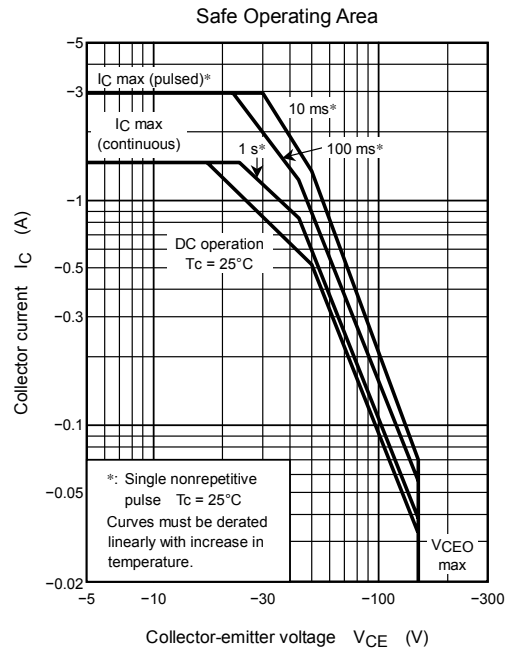
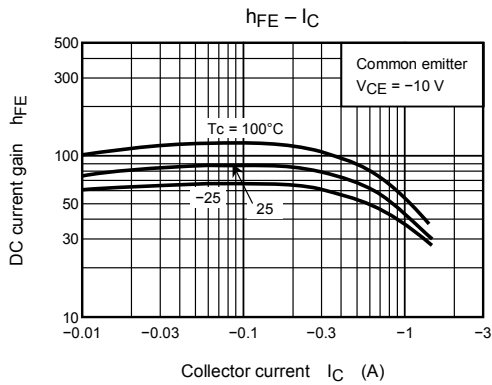
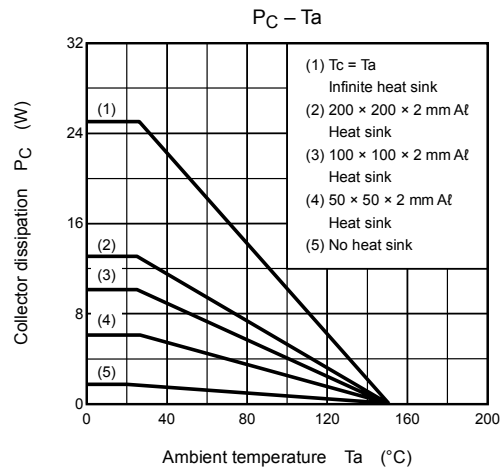
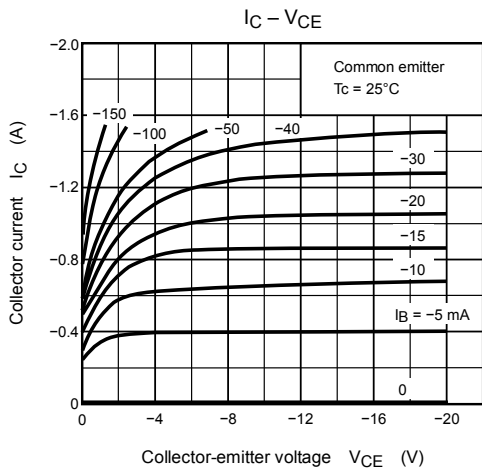
Weight: 1.7 g (typ.)

Electrical Characteristics (Tc = 25°C)

Characteristics	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

Marking





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