

2SB940, 2SB940A

Silicon PNP Epitaxial Planar Type

Power Amplifier

TV Vertical Deflection Output

Complementary Pair with 2SD1264, 2SD1264A

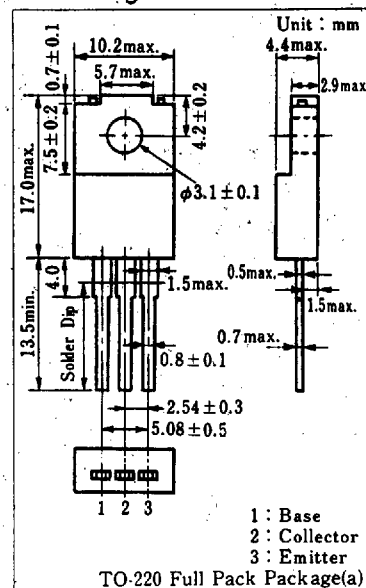
■ Features

- High collector-emitter voltage (V_{CE0})
- Large collector power dissipation (P_C)
- "Full Pack" package for simplified mounting on a heat sink with one screw

■ Absolute Maximum Ratings ($T_c=25^\circ\text{C}$)

Item	Symbol	Value	Unit
Collector-base voltage	2SB940	-200	V
	2SB940A	-200	
Collector-emitter voltage	2SB940	-150	V
	2SB940A	-180	
Emitter-base voltage	V_{EBO}	-6	V
Peak collector current	I_{CP}	-3	A
Collector current	I_C	-2	A
Collector power dissipation	$T_c=25^\circ\text{C}$	30	W
	$T_a=25^\circ\text{C}$	2	
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 ~ +150	$^\circ\text{C}$

■ Package Dimensions



■ Electrical Characteristics ($T_c=25^\circ\text{C}$)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -200\text{ V}, I_E = 0$			-50	μA
Emitter cutoff current	I_{EBO}	$V_{EB} = -4\text{ V}, I_C = 0$			-50	μA
Collector-emitter voltage	V_{CBO}	$I_C = -500\text{ }\mu\text{A}, I_E = 0$	-200			V
Collector-emitter voltage	2SB940 2SB940A	$I_C = -5\text{ mA}, I_B = 0$	-150			V
			-180			
Emitter-base voltage	V_{EBO}	$I_E = -500\text{ }\mu\text{A}, I_C = 0$	-6			V
DC current gain	h_{FE1}^*	$V_{CE} = -10\text{ V}, I_C = -150\text{ mA}$	60		240	
	h_{FE2}	$V_{CE} = -10\text{ V}, I_C = -400\text{ mA}$	50			
Base-emitter voltage	V_{BE}	$V_{CE} = -10\text{ V}, I_C = -400\text{ mA}$			-1	V
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500\text{ mA}, I_B = -50\text{ mA}$			-1	V
Transition frequency	f_T	$V_{CE} = -10\text{ V}, I_C = -0.5\text{ A}, f = 10\text{ MHz}$		30		MHz

* h_{FE1} Classifications

Class	Q	P
h_{FE1}	60 ~ 140	100 ~ 240

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