2SB0940 (2SB940), 2SB0940A (2SB940A)

Silicon PNP epitaxial planar type

For power amplification For TV vertical deflection output Complementary to 2SD1264, 2SD1264A

Features

- \bullet High collector-emitter voltage (Base open) $V_{\mbox{\scriptsize CEO}}$
- \bullet Large collector power dissipation P_{C}
- Full-pack package which can be installed to the heat sink with one screw

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Er	V _{CBO}	-200	V	
Collector-emitter voltage	2SB0940	V _{CEO}	-150	V
(Base open)	2SB0940A		-180	
Emitter-base voltage (Coll	V _{EBO}	-6	V	
Collector current	I _C	-2	А	
Peak collector current	I _{CP}	-3	А	
Collector power		P _C	30	W
dissipation	$T_a = 25^{\circ}C$		2	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

Absolute Maximum Ratings $T_C = 25^{\circ}C$



Electrical Characteristics $T_C = 25^{\circ}C \pm 3^{\circ}C$

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Em	itter open)	V _{CBO}	$I_{\rm C} = -50 \ \mu A, \ I_{\rm E} = 0$	-200			V
Collector-emitter voltage	2SB0940	V _{CEO}	$I_{\rm C} = -5 \text{ mA}, I_{\rm B} = 0$	-150			V
(Base open)	2SB0940A			-180			
Emitter-base voltage (Colle	ctor open)	V _{EBO}	$I_E = -500 \ \mu A, \ I_C = 0$	-6			V
Base-emitter voltage		V_{BE}	$V_{CE} = -10 \text{ V}, I_C = -400 \text{ mA}$			-1	V
Collector-base cutoff current (E	mitter open)	I _{CBO}	$V_{CB} = -200 \text{ V}, I_E = 0$			-50	μΑ
Emitter-base cutoff current (Col	lector open)	I_{EBO}	$V_{EB} = -4 V, I_C = 0$			-50	μΑ
Forward current transfer rat	io	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			
Collector-emitter saturation voltage		V _{CE(sat)}	$I_{\rm C} = -500 \text{ mA}, I_{\rm B} = -50 \text{ mA}$			-1	V
Transition frequency		f _T	$V_{CE} = -10 \text{ V}, I_C = -0.5 \text{ A}, f = 10 \text{ MHz}$		30		MHz

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

Rank	Q	Р	
$h_{\rm FE1}$	60 to 140	100 to 240	

Note) The part numbers in the parenthesis show conventional part number.

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