2SB0745, 2SB0745A (2SB745, 2SB745A)

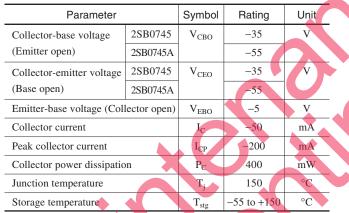
Silicon PNP epitaxial planar type

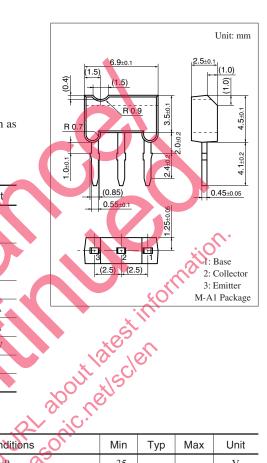
For low-frequency and low-noise amplification

Features

- Low noise voltage NV
- \bullet High forward current transfer ratio $h_{F\!E}$
- M type package allowing easy automatic and manual insertion as well as stand-alone fixing to the printed circuit board.

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





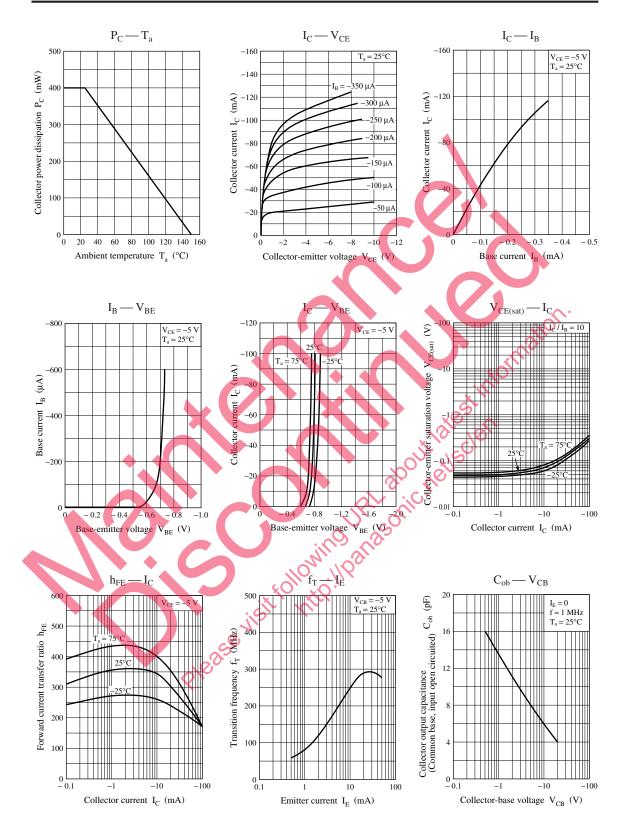
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

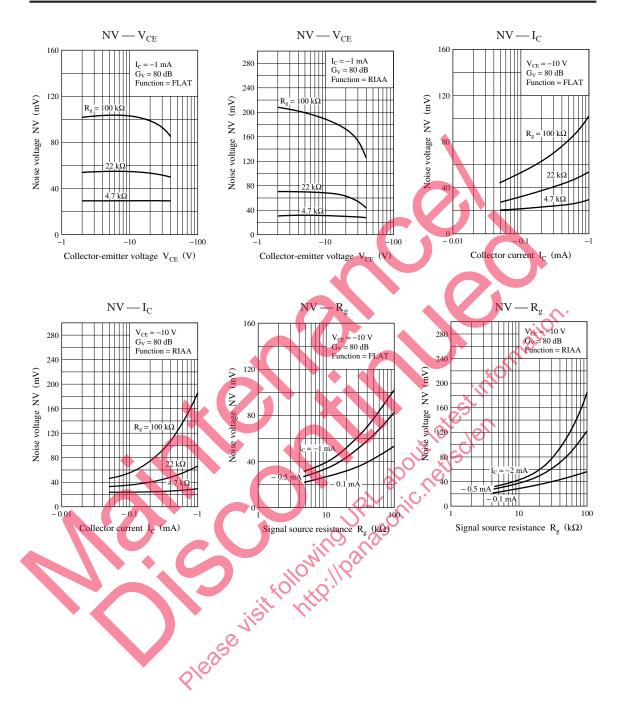
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage 2SB0745	V _{CBO}	$I_{\rm C} = -10 \ \mu {\rm A}, I_{\rm B} = 0$	-35			V
(Emitter open) 2SB0745A		WILL OIL	-55			
Collector-emitter voltage 2SB0745	V _{CEO}	$I_{\rm C} = -2$ mA, $I_{\rm B} = 0$	-35			V
(Base open) 2SB0745A		X C X Q	-55			
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu A, \ I_{\rm C} = 0$	-5			V
Base-emitter voltage	VBE	$V_{CE} = -1 V, I_C = -100 mA$		- 0.7	-1.0	V
Collector-base cutoff current (Emitter open)	Сво	$V_{CB} = -10 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -10 \text{ V}, I_B = 0$			-1	μΑ
Forward current transfer ratio *	h _{FE}	$V_{CE} = -5 V, I_C = -2 mA$	180		700	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{C} = -100 \text{ mA}, I_{B} = -10 \text{ mA}$			- 0.6	V
Transition frequency		$V_{CB} = -5 V, I_E = 2 mA, f = 200 MHz$		150		MHz
Noise voltage	NV	$V_{CE} = -10 \text{ V}, I_C = -1 \text{ mA}, G_V = 80 \text{ dB}$			150	mV
		$R_g = 100 \text{ k}\Omega$, Function = FLAT				

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. *: Rank classification

Rank	Q	R	S	
h _{FE}	180 to 360	260 to 520	360 to 700	

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





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