imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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2SB1398

Silicon PNP epitaxial planar type

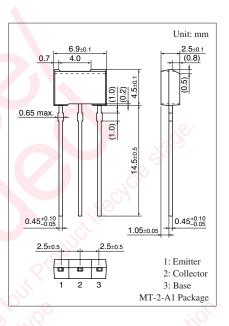
For low-frequency power amplification

Features

- \bullet Low collector-emitter saturation voltage $V_{\mbox{CE(sat)}}$
- Large collector current I_C
- Allowing supply with the radial taping

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

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	-30	V
Collector-emitter voltage (Base open)	V _{CEO}	-25	V
Emitter-base voltage (Collector open)	V _{EBO}	-7	V
Collector current	I _C	-5	А
Peak collector current	I _{CP}	-8	А
Collector power dissipation *	P _C	1	W
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 to +150	°C



Note) *: Print circuit board: Copper foil area of 1 cm² or more, and the board thickness of 1.7 mm for the collector portion

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

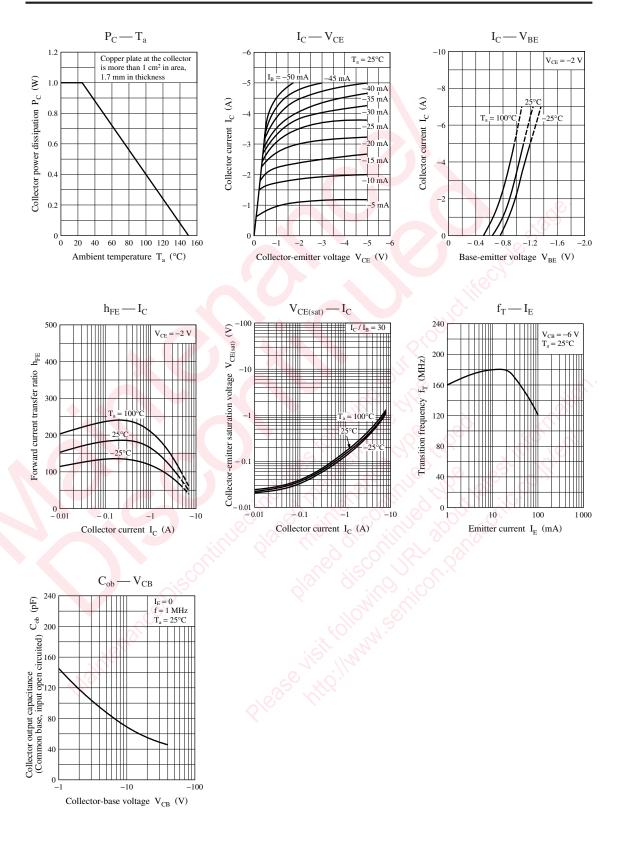
Parameter	Symbol	Conditions	Min	Тур	Мах	Unit
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -1 {\rm mA}, I_{\rm B} = 0$	-25	3		V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu A, I_{\rm C} = 0$	-7			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -10 \text{ V}, I_E = 0$	$\mathcal{O}^{\mathcal{X}}$		-100	nA
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -5 V, I_C = 0$			-100	nA
Forward current transfer ratio *1, 2	h _{FE}	$V_{CE} = -2 V, I_C = -2 A$	90		205	
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_{\rm C} = -3$ A, $I_{\rm B} = -0.1$ A			-1	V
Transition frequency	f _T	$V_{CB} = -6 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		120		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -20 V, I_E = 0, f = 1 MHz$			85	pF
(Common base, input open circuited)		S XON				

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

2. *1: Pulse measurement

*2: Rank classification							
	Rank	Р	Q				
	$h_{\rm FE}$	90 to 135	120 to 205				

Panasonic



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