Silicon PNP Epitaxial

HITACHI

Application

Low frequency power amplifier complementary pair with 2SD669/A

Outline

Absolute Maximum Ratings (Ta = 25°C)

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

Ratings

ltem 100	Symbol	2SB649	2SB649A	Unit
Collector to base voltage	V_{CBO}	-180	-180	V
Collector to emitter voltage	V _{CEO}	-120	-160	V
Emitter to base voltage	V_{EBO}	-5	-5 M.T.V	V
Collector current	I _c	-1.5	00 – 1.5	A
Collector peak current	I _{C(peak)}	-3	100-3	A
Collector power dissipation	C P _c	1 WWW	1017.CO	W
	P _c *1	20	20	W
Junction temperature	TION.	150	150	°C
Storage temperature	Tstg	-55 to +150	-55 to +150	°C
	73.63.34.7		4 (111)	

Note: 1. Value at $T_c = 25^{\circ}C$

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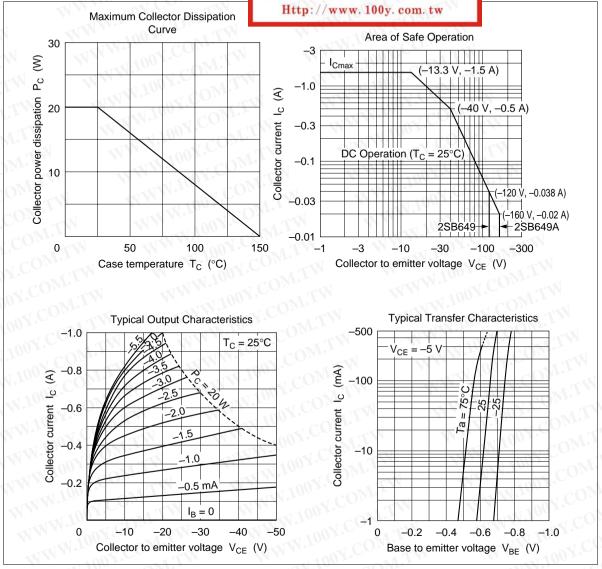
Electrical Characteristics ($Ta = 25^{\circ}C$)

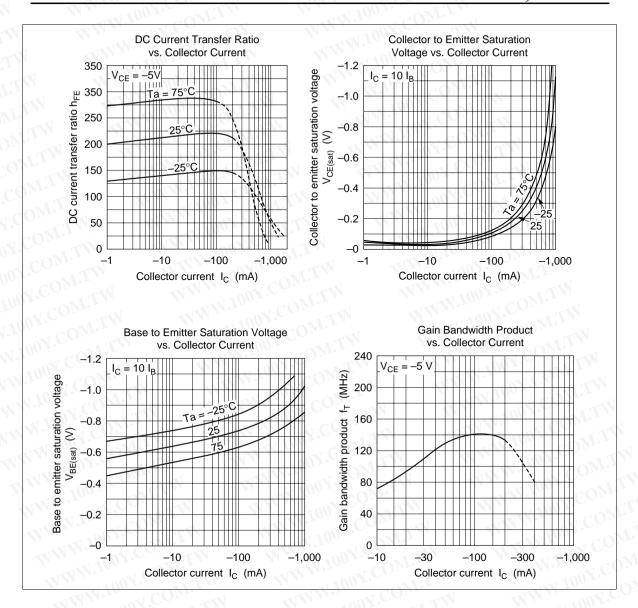
	Symbol	2SB649		2SB649A					
Item .1		Min	Тур	Max	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-180	TW	_	-180	W.10	00 X .	VM-	$I_{c} = -1 \text{ mA}, I_{E} = 0$
Collector to emitter breakdown voltage	V _{(BR)CEO}	-120	NT.IV	<u> </u>	-160	M	1001	V CO	$I_{\rm C} = -10$ mA, $R_{\rm BE} =$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	- 5	NA. T	W	- 5	N W	N .1 00	V.CC	$I_E = -1 \text{ mA}, I_C = 0$
Collector cutoff current	I _{CBO}	n zi .C'	$\overline{\Omega_{\mathrm{M}_{2}}}$	-10	_	WI	-10	μΑ	$V_{CB} = -160 \text{ V}, I_{E} = 0$
DC current transfer ratio	h _{FE1} *1	60	CO_{j_0}	320	60	W	200	100Y.	$V_{CE} = -5 \text{ V},$ $I_{C} = -150 \text{ mA}$
	h _{FE2}	30	Y.CO	A.T.	30	_ \	NWV	1.100	$V_{CE} = -5 \text{ V},$ $I_{C} = -500 \text{ mA}^{*2}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	W.10	OT.C	0-1 OM:	LA.	_	1	V 10	$I_{\rm C} = -500 \text{ mA},$ $I_{\rm B} = -50 \text{ mA}$
Base to emitter voltage	V _{BE}	NW.1	$\frac{100 \text{ Å}}{60 \text{ Å}}$	-1.5		_	-1.5	V _N .	$V_{CE} = -5 \text{ V},$ $I_{C} = -150 \text{ mA}$
Gain bandwidth product	f _T	TAN N	140	A'CO	M.T	140	- <	MHz	$V_{CE} = -5 \text{ V},$ $I_{C} = -150 \text{ mA}$
Collector output capacitance	Cob	MM.	27	00X.C	OH!	27	_	pF	$V_{CB} = -10 \text{ V}, I_{E} = 0,$ f = 1 MHz

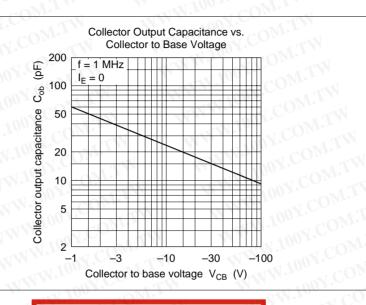
	В	C	D 100
2SB649	60 to 120	100 to 200	160 to 320
2SB649A	60 to 120	100 to 200	AMM.
MMM	1007.CO	M.TW	MMM
		勝	特力材料

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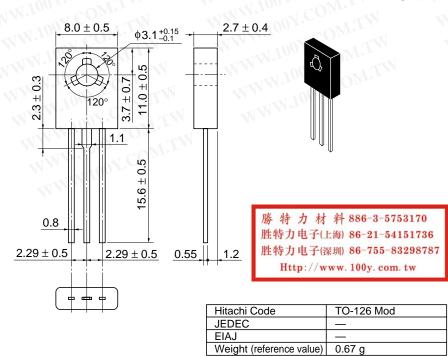
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Unit: mm



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