# 2SB562

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# Y.COM.TW Application

• Low frequency power amplifier

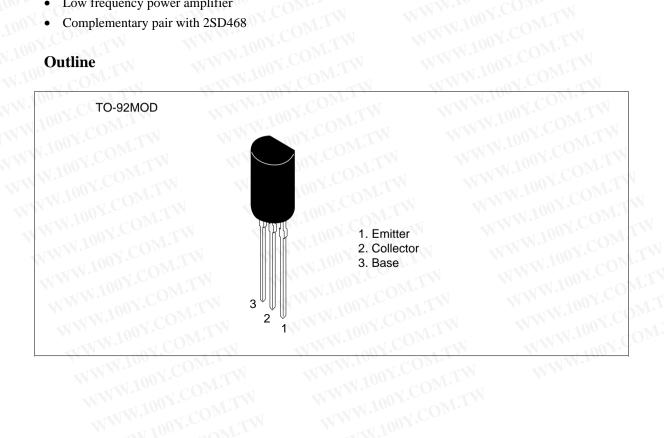
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Complementary pair with 2SD468

### N.100Y **Outline**





### 2SB562

**Absolute Maximum Ratings** ( $Ta = 25^{\circ}C$ )

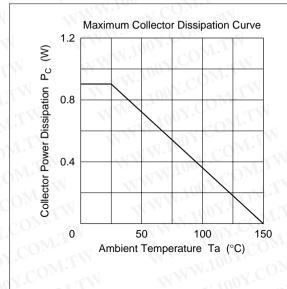
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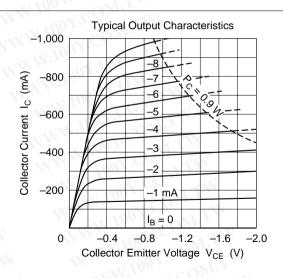
Item COM.	Symbol	Ratings	Unit
Collector to base voltage	$V_{\text{CBO}}$	-25	V
Collector to emitter voltage	V <sub>CEO</sub>	<b>–20</b>	V
Emitter to base voltage	$V_{EBO}$	V.10-5	V A A
Collector current	I'v Ic	-1.0	
Collector peak current	i <sub>C(peak)</sub>	-1.5	
Collector power dissipation	TVP <sub>c</sub>	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

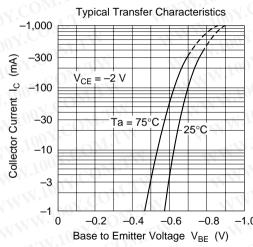
# **Electrical Characteristics** (Ta = 25°C)

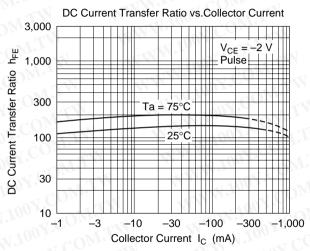
ltem	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-25	OM.	LM.	V	$I_{c} = -10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-20	CO <sub>N</sub>	T41	V	$I_{\rm C} = -1$ mA, $R_{\rm BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-5	1. <u>c</u> 01	N.TW	V	$I_E = -10 \ \mu A, \ I_C = 0$
Collector cutoff current	I <sub>CBO</sub>	1	10 T.Cc	-1.0	μΑ	$V_{CB} = -20 \text{ V}, I_{E} = 0$
DC current transfer ratio	h <sub>FE</sub> *1	85	100×1.C	240	W	$V_{CE} = -2 \text{ V},$ $I_{C} = -0.5 \text{ A (Pulse test)}$
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	WWW	-0.2	-0.5	V	$I_{\rm C} = -0.8 \text{ A},$ $I_{\rm B} = -0.08 \text{ A (Pulse test)}$
Base to emitter voltage	V <sub>BE</sub>	W	-0.8	-1.0	VIV	$V_{CE} = -2 \text{ V},$ $I_{C} = -0.5 \text{ A (Pulse test)}$
Gain bandwidth product	f <sub>T</sub>	-11	350	00X.C	MHz	$V_{CE} = -2 \text{ V},$ $I_{C} = -0.5 \text{ A (Pulse test)}$
Collector output capacitance	Cob	- <	38	100 X.C	pF	$V_{CB} = -10 \text{ V}, I_{E} = 0$ f = 1 MHz

В WWW.100Y.COM.TW 85 to 170 WWW.100Y.COM.TW

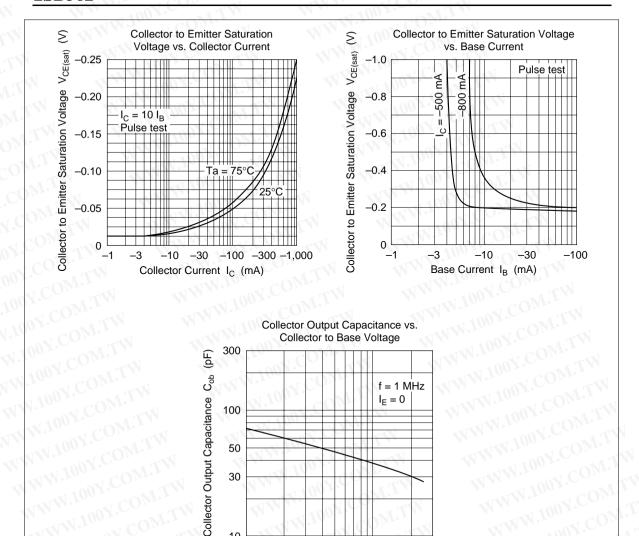








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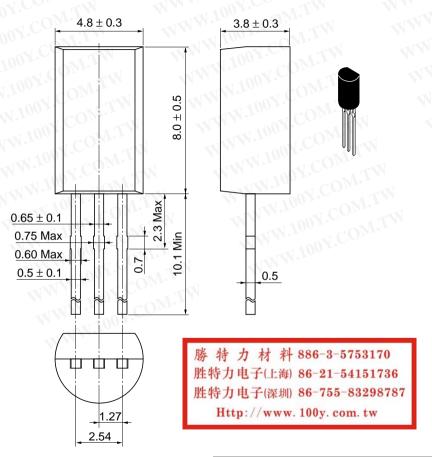
Collector to Base Voltage V<sub>CB</sub> (V)

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10 <sup>\_</sup>

Unit: mm



Hitachi Code	TO-92 Mod
JEDEC	
EIAJ	Conforms
Weight (reference value)	0.35 g

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