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# Application

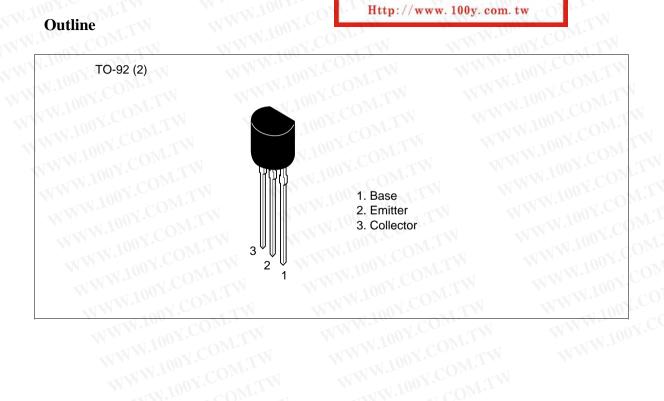
VHF Wide band amplifier

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特力材料 886-3-5753170 勝 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 MIW Http://www.100v.com.tw

### NN.100 Outline





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

Item	Symbol	Ratings	Unit
Collector to base voltage	V <sub>CBO</sub>	30	V
Collector to emitter voltage	V <sub>CEO</sub>	20	V
Emitter to base voltage	V <sub>EBO</sub>	3	V
Collector current	COM	300	mA
Collector peak current	i <sub>C (peak)</sub>	500	mA
Collector power dissipation	Pc	600	mW
Junction temperature	COMT	150	0°C
Storage temperature	Tstg	-55 to +150	°C

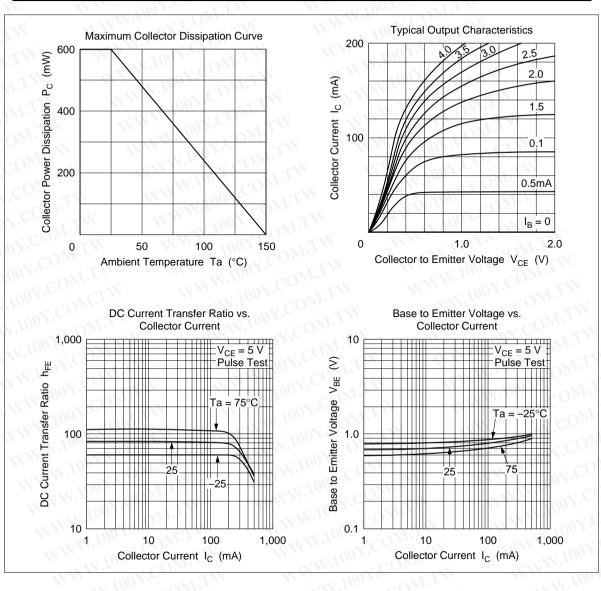
# NW.100Y.COM.TV **Electrical Characteristics** (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	V <sub>(BR)CBO</sub>	30	<u>v.co</u>	N <del>T.</del> N	V	$I_{c} = 100 \ \mu A, I_{E} = 0$
Collector to emitter breakdown voltage	V <sub>(BR)CEO</sub>	20	00 V.CC	M.T	V	$I_c = 1 \text{ mA}, R_{BE} = \infty$
Collector cutoff current	I <sub>CBO</sub>	<u>.</u>	10 <del>0</del> 7.C	1.1.1	μA	$V_{CB} = 25 \text{ V}, \text{ I}_{E} = 0$
Emitter cutoff current	I <sub>EBO</sub>	an.	1101	10	μA	$V_{EB} = 3 \text{ V}, \text{ I}_{E} = 0$
DC current transfer ratio	h <sub>FE</sub>	50	1005	200	WT	$V_{ce} = 5 \text{ V}, I_c = 50 \text{ mA}$
Gain bandwidth product	ſf <sub>T</sub>	1.5	2.5	N.COR	GHz	$V_{ce} = 5 \text{ V}, I_c = 50 \text{ mA}$
Collector output capacitance	Cob		4.0	NTCO	pF	$V_{CB} = 10 \text{ V}, I_{E} = 0, f = 1 \text{ MHz}$

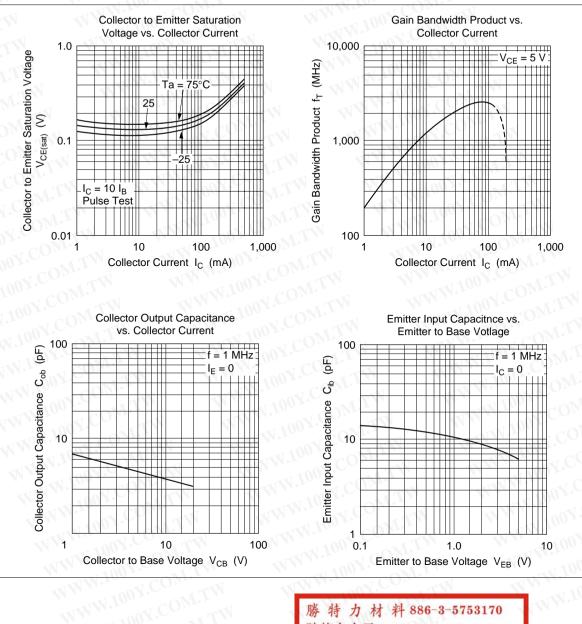
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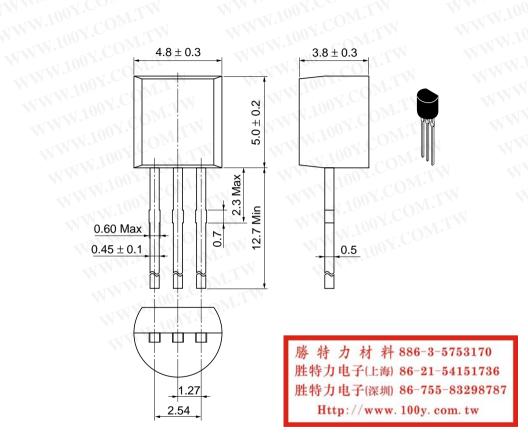




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#### **HITACHI**

Unit: mm



Hitachi Code	TO-92 (2)
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	0.25 g

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