WWW.100Y.COM.TW OM.TW Silicon NPN Epitaxial Planar WWW.100Y.C

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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

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ADE-208-1058 (Z) 1st. Edition Mar. 2001

N.COM.TW Application

- VHF amplifier
- Mixer, Local oscillator NWW.1

WWW.100

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Outline

WW.100X.COM.TW OX.COM.TW W.100 WWW.100Y.COM WWW.100Y.COM WWW.10 WWW.10 TO-92 (2) WWW.100Y.COM.TW OOY.COM.TW V.100Y.COM. 100Y.COM.TW NW.100Y.COM.TW V.100Y.COM.TW WW.100Y.COM.TW WWW.100Y.COM.T NWW.100Y.COM.TW 1. Emitter 2. Collector 3. Base WWW.100Y.COM.TW M.TV 3 ∜ NWW.100Y.COM.TW WW.100Y.COM.TW OM.T 2 WWW.100Y.C WWW.100Y.COM.TW on COMTW OM. WT WWW.100Y.CON WWW.100Y.COM WWW.10 WWW WWW.100Y.COM.TW



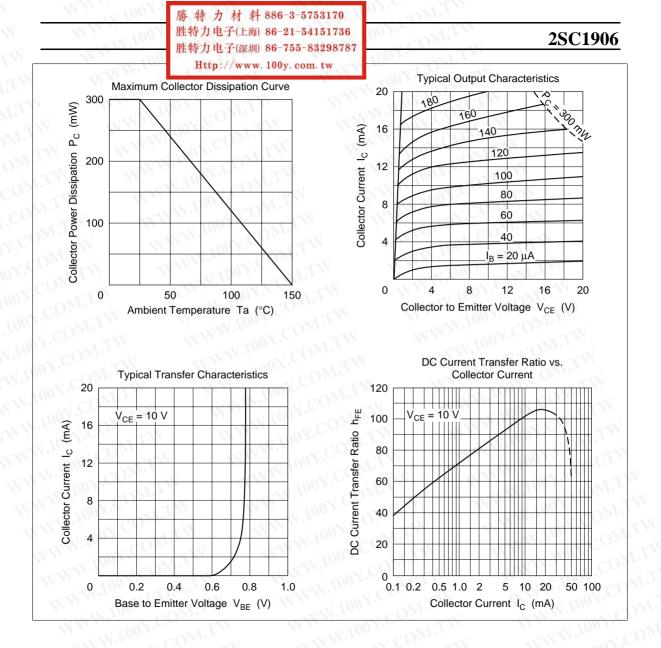
Absolute Maximum Ratings (Ta = 25°C)

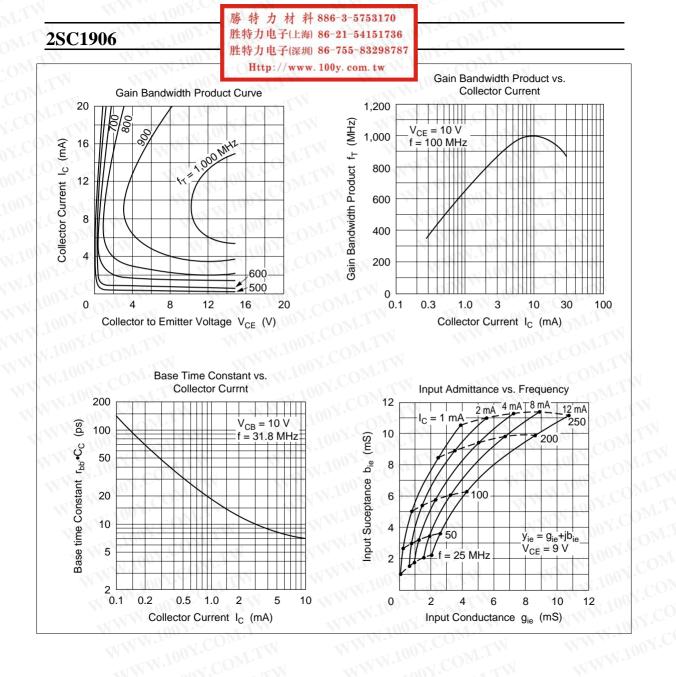
Item COM-1	Symbol	Ratings	Unit	
Collector to base voltage	V _{CBO}	30	V	
Collector to emitter voltage	V _{CEO}	19	V	
Emitter to base voltage	V _{EBO}	N.12 COM.	V	
Collector current		50	mA	
Emitter current		-50	mA	
Collector power dissipation	Pc	300	mW	
Junction temperature	COMPUTITI V	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

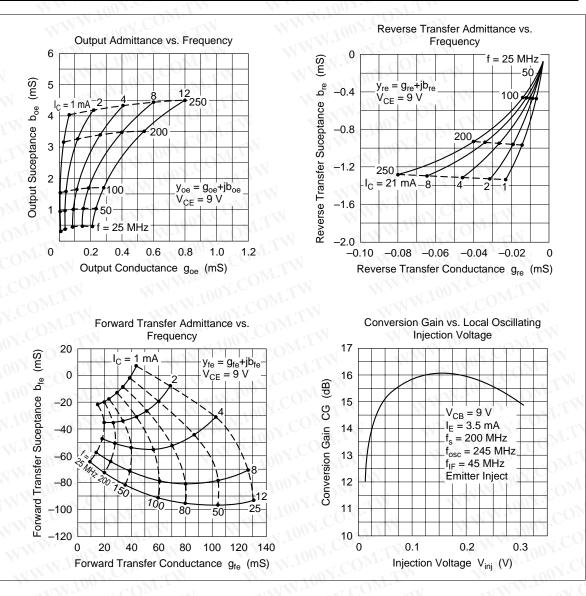
M.TW COM.TW **Electrical Characteristics** (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test conditions	
Collector to base breakdown voltage	V _{(BR)CBO}	30	CO-M.	TW	V	$I_{c} = 10 \ \mu A, I_{E} = 0$	
Collector to emitter breakdown voltage	V _{(BR)CEO}	19	< CON	1.7 4 1	V	$I_c = 3 \text{ mA}, R_{BE} = \infty$	
Emitter to base breakdown voltage	V _{(BR)EBO}	2	ov.co	N.TY	V	$I_{\rm E} = 10 \ \mu A, \ I_{\rm C} = 0$	
Collector cutoff current	I _{CBO}	<u> </u>	nov.C.	0.5	MμA	$V_{CB} = 10 \text{ V}, \text{ I}_{E} = 0$	
DC current transfer ratio	h _{FE}	40	.Ym	<u>0</u>	W	$V_{ce} = 10 \text{ V}, I_c = 10 \text{ mA}$	
Gain bandwidth product	f _T	600	1000	COM.	MHz	$V_{ce} = 10 \text{ V}, I_c = 10 \text{ mA}$	
Collector output capacitance	Cob	WE	1.0	2.0	pF	$V_{CB} = 10 \text{ V}, \text{ I}_{E} = 0, \text{ f} = 1 \text{ MH}$	
Collector to emitter saturation voltage	V _{CE(sat)}	WW	0.2	1.0	V	$I_{c} = 20 \text{ mA}, I_{B} = 4 \text{ mA}$	
Base time constant	r _{ьь'} ∙С _с	-11	10	25	ps	$V_{_{CB}} = 10 \text{ V}, \text{ I}_{_{C}} = 10 \text{ mA},$ f = 31.8 MHz	
Power gain	PG	-	33	100Y.	dB	$V_{ce} = 10 \text{ V}, f = 45 \text{ MHz}$ $I_c = 5 \text{ mA}$	
		_	18	N.T007	dB	$V_{CE} = 10 \text{ V}, f = 200 \text{ MH}$ $I_{C} = 5 \text{ mA}$	

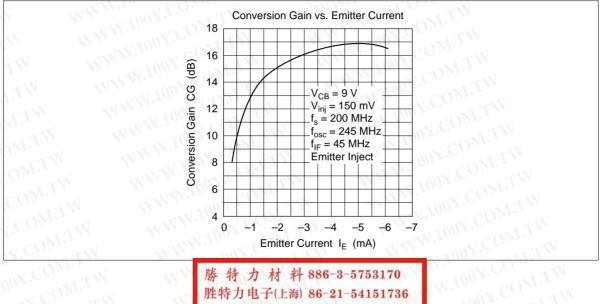
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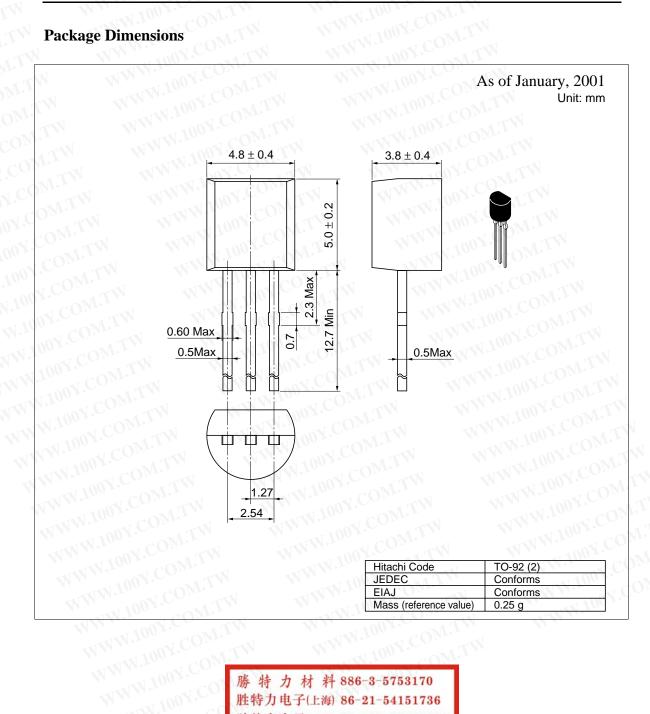


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Package Dimensions



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Cautions

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