2SC2988

Silicon NPN Epitaxial Planar Type

RF Power Amplifier

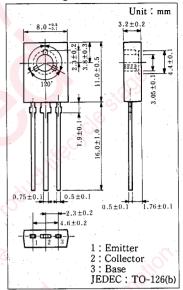
■ Features

- Power output 1.8W on VHF band (f=175MHz)
- High gain 10dB

■ Absolute Maximum Ratings (Ta=25°C)

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Symbol	Value	Unit
V_{CBO}	36	V
V_{CEO}	16	v
V_{EBO}	3	V
I _{CP}	-1	A
$I_{\mathbf{C}}$	0.5	, A
P _C	5	w w
T _j	150	°C
$T_{ m stg}$	-55~+150	°C (
	V _{CBO} V _{CEO} V _{EBO} I _{CP} I _C T _j	VCBO 36 VCEO 16 VEBO 3 ICP 1 IC 0.5 PC 5 Tj 150

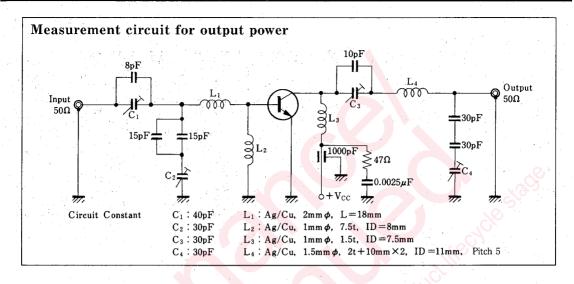
■ Package Dimensions

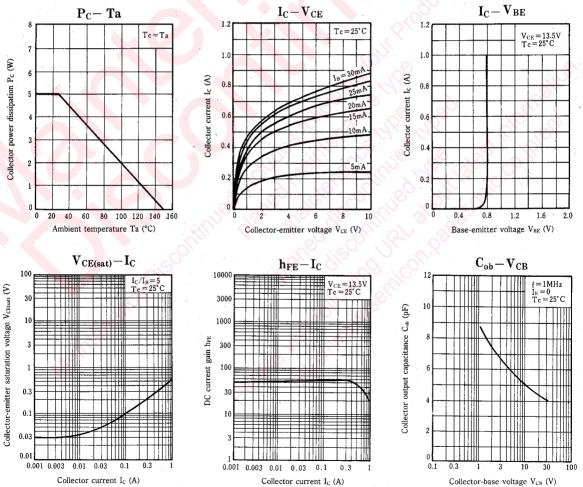


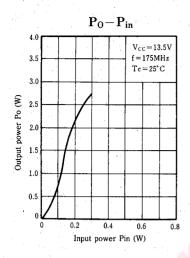
■ Electrical Characteristics (Tc=25°C)

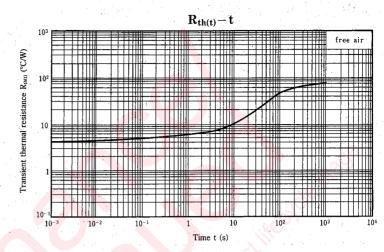
Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 20V, I_E = 0$		XO3	10	μ A
Emitter cutoff current	h_{FE}	$V_{CE} = 13.5 \text{V}, I_{C} = 200 \text{mA}^*$	20	50-	9	
Transition frequency	f_{T}	$V_{CB} = 10V$, $I_E = -100 \text{mA}^*$, $f = 200 \text{MHz}$	600	1000		MHz
Collector output capacitance	Cob	$V_{CB} = 10V, I_E = 0, f = 1MHz$	<i>30</i> /	6	10	р F
Overall efficiency characteristics	P_0	$V_{CC} = 13.5V$, $P_{in} = 0.2W$, $f = 175MHz$	1.8	2.2		W
Output power	ηс	$V_{CC} = 13.5V$, $P_{in} = 0.2W$, $f = 175MHz$	0.0	50		%

^{*}パルス測定









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