

No.3553

2SC4433

NPN Epitaxial Planar Silicon Transistor

HF Amp Applications

Features

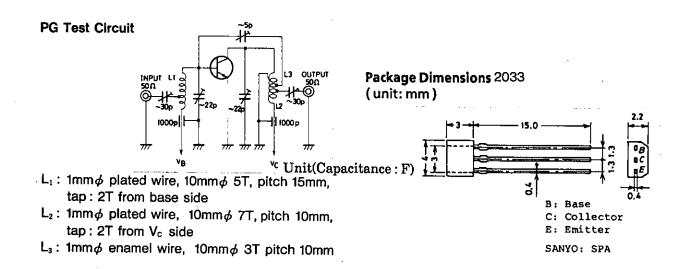
- · High power gain : PG=28dB typ(f=100MHz)
- High cutoff frequency: $f_{\tau} = 750MHz$ typ
- · Small Cob, Cre

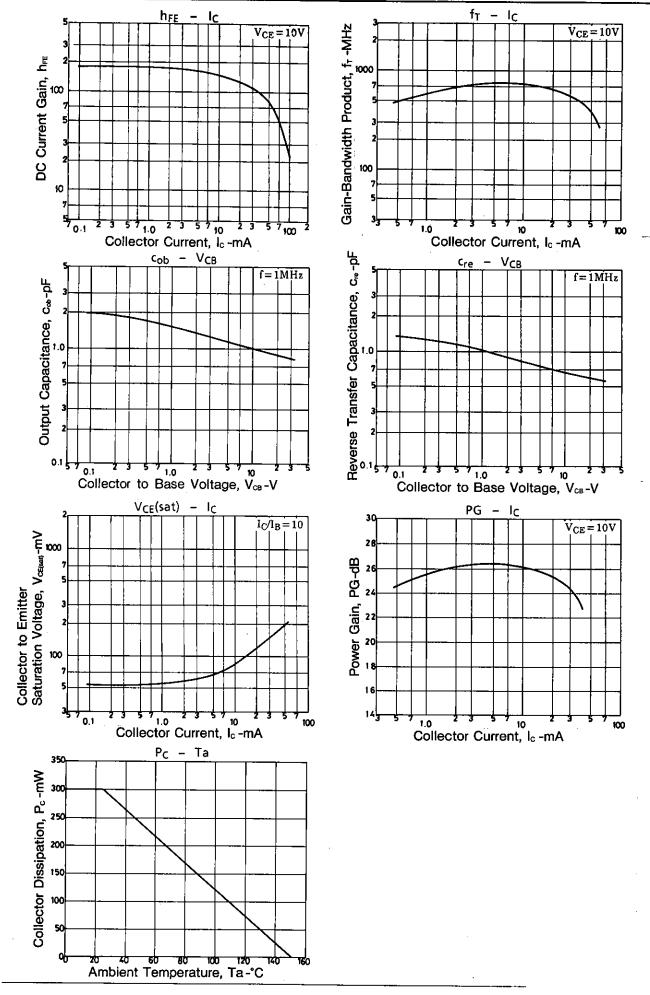
Absolute Maximum Ratings at Ta	=25°C		unit
Collector to Base Voltage	$V_{\scriptscriptstyle CBO}$	40	V
Collector to Emitter Voltage	V _{CEO}	18	v
Emitter to Base Voltage	V_{ebo}	3	v
Collector Current	l _c	50	mA
Collector Dissipation	Pc	300	mW
Junction Temperature	T_l	150	°C
Storage Temperature	T _{atg}	-55 to +150	°C

Electrical Characteristics at	Ta=25°C		min	typ	max	unit
Collector Cutoff Current	I _{CBO}	$V_{cB} = 18V, I_{E} = 0$		•,,,,,	0.1	μΑ
Emitter Cutoff Current	l _{seo}	$V_{EB} = 2V, I_{c} = 0$			0.1	μΑ
DC Current Gain	h _{FE}	V_{CE} =10V, I_{C} =5mA	60*		320*	<i>,</i>
Gain-Bandwidth Product	f _T	$V_{ce}=10V$, $I_c=5mA$		750		MHz
Output Capacitance	Cop	V _{CB} =10V, f=1MHz		1.0	1.5	pF
Reverse Transfer Capacitance	Cre	V _{CB} =10V, f=1MHz		0.65		pF
C-E Saturation Voltage	$V_{\text{CE(sat)}}$	$I_c = 10mA$, $I_B = 1mA$			0.2	v
B-C Time Constant	r₀₀′ c₀	$V_{ce} = 10V$, $I_c = 5mA$, $f = 31.9MHz$			25	ps
Power Gain	PG	V_{ce} =10V, I_c =10mA, f=100MHz		26		dΒ

*The 2SC4433 is classified by 5mA hre as follows.

60 D 120	100 E 200	160 F 320
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