

9097250 TOSHIBA (DISCRETE/OPTO)

39C 00359 D T-31-15
マイクロモールド

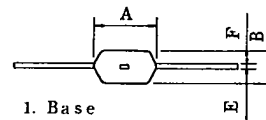
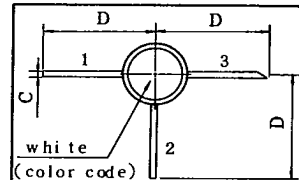
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- PNP型超高速スイッチング用
- PNP Type High Speed Switching Applications

$f_T = 4 \text{ GHz (Typ.) (I_C = -10 \text{ mA})}$

最大定格 MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
コレクタ・ベース間電圧	V _{CBO}	- 15	V
コレクタ・エミッタ間電圧	V _{CEO}	- 8	V
エミッタ・ベース間電圧	V _{EBO}	- 2	V
コレクタ電流	I _C	- 30	mA
エミッタ電流	I _E	30	mA
コレクタ損失	P _C	150	mW
接合部温度	T _j	125	°C
保存温度	T _{stg}	-55~125	°C



1. Base
2. Emitter
3. Collector

Unit in mm

Dim	Min	Max
A	1.98	2.34
B	1.21	1.52
C	0.25	0.41
D	4.19	4.45
E	0.10	0.15
F	0.49	0.62

JEDEC

EIAJ

TOSHIBA 2-2B1A

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マイクロ波特性 MICROWAVE CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
トランジション周波数	f_T	$V_{CE} = -5V, I_C = -10mA$	3.0	4.0	—	GHz
挿入電力利得	$ S_{21e} ^2$	$V_{CE} = -5V$ $I_C = -10mA, f = 1GHz$	—	9.5	—	dB
雑音指数	NF	$V_{CE} = -5V$ $I_C = -3mA, f = 1GHz$	—	3.5	—	dB

電気的特性 ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
コレクタシャ断電流	I_{CBO}	$V_{CB} = -5V, I_E = 0$	—	—	0.1	μA
エミッタシャ断電流	I_{EBO}	$V_{EB} = -1V, I_C = 0$	—	—	0.1	μA
直流電流増幅率	h_{FE}	$V_{CE} = -5V, I_C = -10mA$	20	45	—	—
コレクタ出力容量	C_{ob}	$V_{CB} = -5V, I_E = 0$	—	0.85	—	pF
帰還容量	C_{re}	$f = 1MHz$ (Note 1)	—	0.7	—	pF

Note 1 : C_{re} は Boonton Electronics Corp. 製 75D Direct Capacitance

Bridge によって三端子法で測定。

C_{re} is measured by 3-terminal method with Boonton

Electronics Corp. 75D Direct Capacitance Bridge.

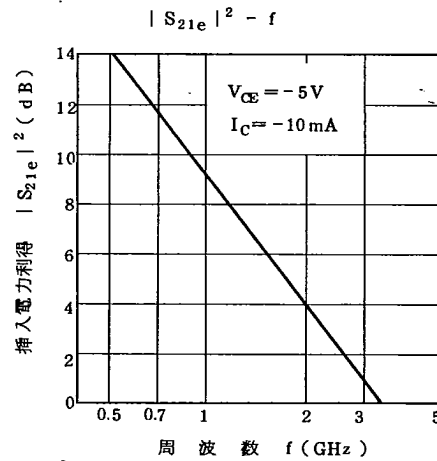
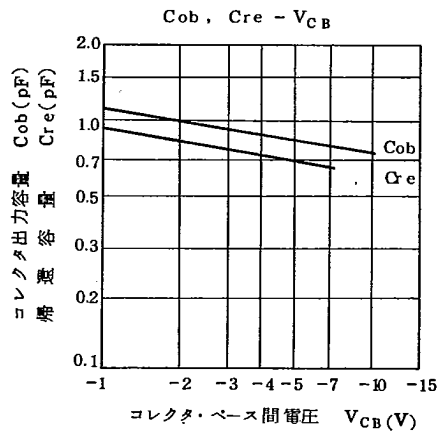
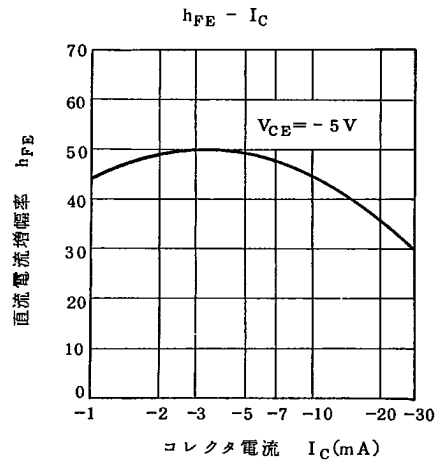
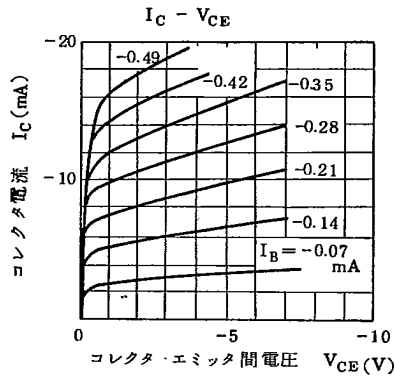
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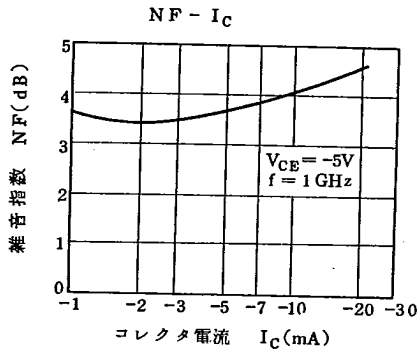
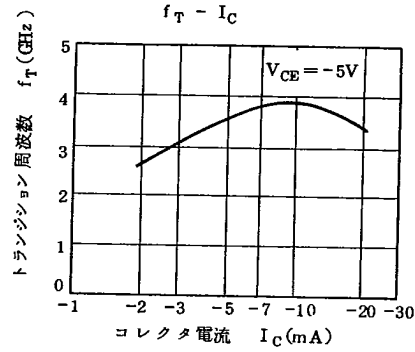
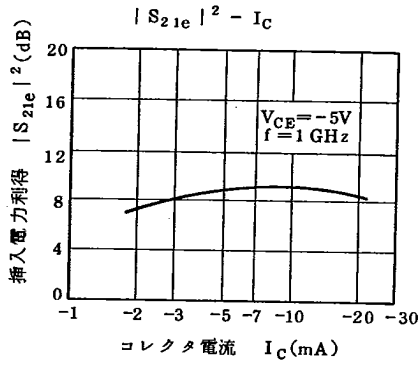
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9097250 TOSHIBA (DISCRETE/OPTO)

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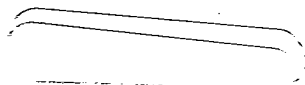
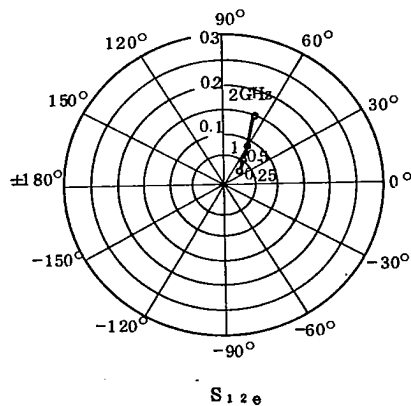
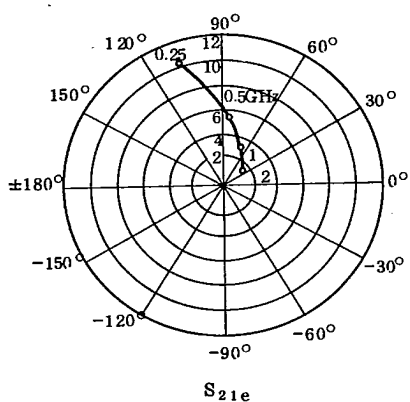
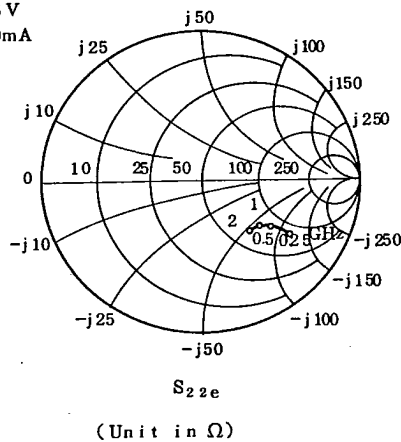
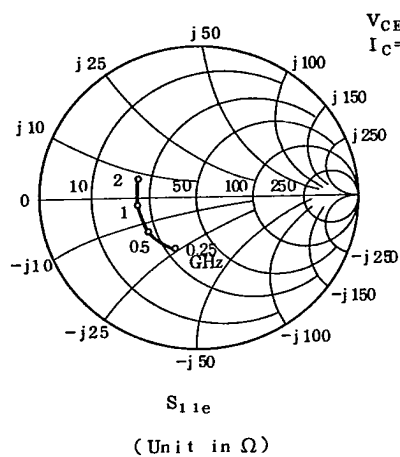
9097250 TOSHIBA (DISCRETE/OPTO)

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2SA967のエミッタ接地, 小信号Sパラメータ

COMMON EMITTER SMALL SIGNAL S-PARAMETERS OF 2SA967



SA---02967-SX