查询"MT3S40T"快身帝A TRANSISTOR SILICON NPN EPITAXIAL PLANER TYPE

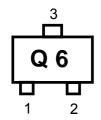
MT3S40T

VCO OSCILLETOR STAGE
UHF LOW NOISE AMPLIFIER APPLICATION

FEATURES

- Low Noise Figure :NF=1.2dB (@f=2GHz)
- High Gain:|S21e|²=11.0dB (@f=2GHz)

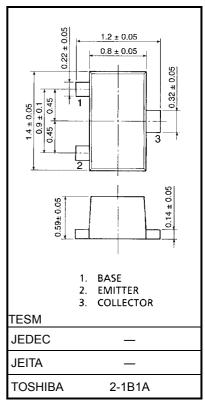
Marking



Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Collector-Base voltage	V _{CBO}	8	V
Collector-Emitter voltage	V _{CEO}	4.5	٧
Emitter-Base voltage	V _{EBO}	1.5	V
Collector-Current	Ic	70	mA
Base-Current	ΙΒ	35	mA
Collector Power dissipation	P _C	100	mW
Junction temperature	Tj	150	°C
Storage temperature Range	T _{stg}	-55~150	°C

Unit: mm



Weight: 0.0022g (typ.)



MicPoWave4Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Transition Frequency	fT	V _{CE} =3V, I _C =20mA, f=2GHz	13	17	-	GHz
Insertion Gain –	S21e ² (1)	V _{CE} =3V, I _C =20mA, f=1GHz	14.5	16.5	-	dB
	S21e ² (2)	V _{CE} =3V, I _C =20mA, f=2GHz	9	11	-	dB
Noise Figure ——	NF(1)	V _{CE} =3V, I _C =5mA, f=1GHz	-	0.9	-	dB
	NF(2)	V _{CE} =3V, I _C =5mA, f=2GHz	-	1.2	1.8	dB

Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Collector Cut-off Current	I _{CBO}	V _{CB} =8V, I _E =0	-	-	1	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} =1V, I _C =0	-	-	1	μA
DC Current Gain	hFE	V _{CE} =3V, I _C =20mA	70	-	140	-
Output Capacitance	C _{ob}	V _{CB} =1V, I _E =0, f=1MHz	-	0.77	1.2	pF
Reverse Transistor Capacitance	C _{re}	V _{CB} =1V, I _E =0, f=1MHz (Note 1)	-	0.44	0.8	pF

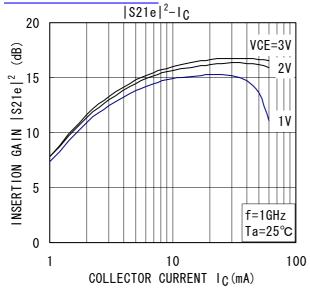
Note 1: Cre is measured by 3 terminal method with capacitance bridge.

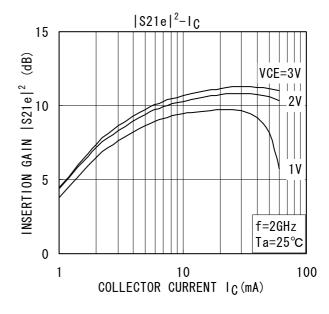
Caution: This device is sensitive to electrostatic discharge.

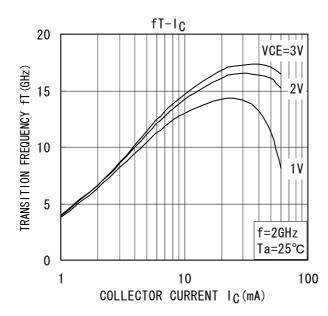
Please make enough tool and equipment earthed when you handle.

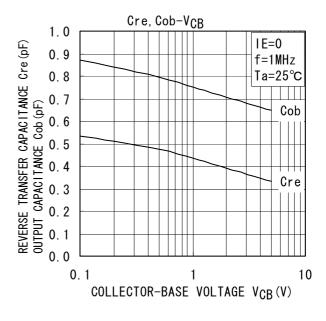
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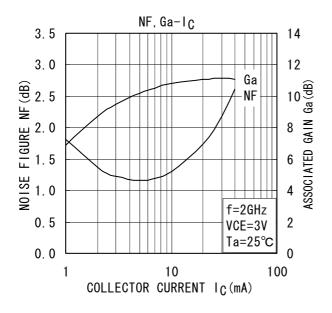
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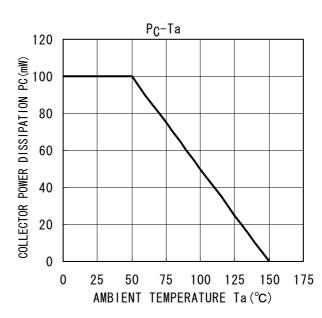












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