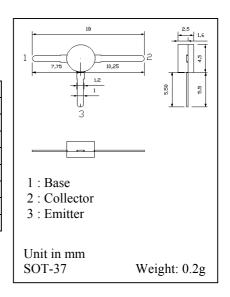


NPN SILICON HIGH-FREQUENCY TRANSISTOR

... designed for low noise amplifier at VHF, UHF and CATV band.

MAXIMUM RATINGS (Ta = 25 °C)

Characteristic	Symbol	Value	Unit
Collector Base Voltage	Vсво	20	V
Collector Emitter Voltage	VCEO	15	V
Emitter Base Voltage	VEBO	3	V
Collector Current	Ic	100	mA
Collector power Dissipation	Ptot	250	mW
Junction Temperature	Тјмах	150	°C
Operating Junction Temperature Range	Tj	-45 ~ 70	°C
Storage Temperature Range	Tstg	-65 ~ 150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector Cut Off Current	Ісво	IE=0, VCB=10V	-	-	100	nA
Emitter Cutoff Current	ІЕВО	IC =0, VEB =1V	-	-	1	μΑ
Collector Emitter Breakdown	V(BR)CEO	Ic=1mA, IB=0	15	-	-	V
Voltage						
DC Current Gain	hfe	IE =20mA, VcB =10V	50	120	300	-
Transition Frequency	fт	Ic =20mA, VcB =10V,	6	7	-	GHz
		f=300MHz				
Collector Base Capacitance	Cob	IE =0, VCB =10V,	-	0.5	0.9	pF
		f=1MHz				
Noise Figure	NF	IE =5mA, VCB =10V,	-	1.3	2.0	dB
		f=800MHz				
Power Gain	Gps	IE =20mA, VCE =10V,	13.6	15	-	dB
		f=800MHz				





Classification of hFE

Class	K	Н	F	E
hfe	50 to 300	50 to 100	80 to 160	125 to 250

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