

2SC4226

NPN SILICON RF TRANSISTOR

External bipolar process, with high power gain Low noise characteristics. The adoption of submitniature SOT- 323 package, Especially suitable for high density surface patch installation, mainly for the VHF, UHF low noise amplifier.





Feature

High gain: S21e 2	TYP. Value is 11dB	@ VCE=3V,	IC=7mA,	f=1GHz
Low noise: NF	TYP. Value is 1.4dB	@ VCE=3V,	IC=7mA,	f=1GHz
ft (TYP.) :	TYP. Value is 4.5GHz	@ VCE=3V,	IC=7mA,	f=1GHz

Absolute Maximum Ratings TA=25°C Unless Otherwise noted

PARAMETER	SYMBLE	MAXIMUM VALUE	UNIT
Collector-base breakdown voltage	Vcbo	20	V
Collector-emitter breakdown voltage	VCEO	12	V
Emitter-base breakdown voltage	Vebo	3	V
Collector current	IC	100	mA
Collector Power Dissipation	Pd	150	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-65 ∼+150 °C	Tstg

hFE Classification

Classification	А	В	С	D	Е	
Marking	R24		R25			
hFE	60~100	90~140	130~180	170~250	250~300	



2SC4226

ELECTRICAL CHARACTERISTICS (1 ^a -25 C unless otherwise specified)							
PARAMETER	SYMBLE	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	
Collector-base breakdown voltage	Vcbo	20			V	Ic=1.0µA	
Collector cut-off current	Ісво			0.1	μΑ	VCB=10V	
Emitter cut-off current	Iebo			0.1	μΑ	VEB=1V	
DC current gain	hFE	60	150	300		Vce=3V,Ic=7mA	
Transit frequency	ft	3.5	4.5		GHz	Vce=3V,Ic=7mA	
Output feedback capacitance	Cre		0.65	1.0	рF	Vcb=10V,Ie=0mA,f=1MHz	
Power gain	S21e 2		9.5		dB	Vce=3V,Ic=3mA,f=1GHz	
			10.7		dB	Vce=3V,Ic=5mA,f=1GHz	
			11		dB	Vce=3V,Ic=7mA,f=1GHz	
			11.6		dB	Vce=3V,Ic=10mA,f=1GHz	
Noise factor	NF		1.4	2.0	dB	VCE=3V,IC=7mA,f=1GHz	
			1.6	2.3		Vce=10V,Ic=5mA,f=1GHz	

ELECTRICAL CHARACTERISTICS (T₈=25°C unless otherwise specified)

TYPICAL CHARACTERISTICS





2SC4226



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Shikues manufacturer:

Other Similar products are found below :

619691C MCH4017-TL-H MJ15024/WS MJ15025/WS BC546/116 BC556/FSC BC557/116 BSW67A HN7G01FU-A(T5L,F,T NJVMJD148T4G NSVMMBT6520LT1G NTE187A NTE195A NTE2302 NTE2330 NTE2353 NTE316 IMX9T110 NTE63 NTE65 C4460 SBC846BLT3G 2SA1419T-TD-H 2SA1721-O(TE85L,F) 2SA1727TLP 2SA2126-E 2SB1202T-TL-E 2SB1204S-TL-E 2SC5488A-TL-H 2SD2150T100R SP000011176 FMC5AT148 2N2369ADCSM 2SB1202S-TL-E 2SC2412KT146S 2SC4618TLN 2SC5490A-TL-H 2SD1816S-TL-E 2SD1816T-TL-E CMXT2207 TR CPH6501-TL-E MCH4021-TL-E BC557B TTC012(Q) BULD128DT4 JANTX2N3810 Jantx2N5416 US6T6TR KSF350 068071B