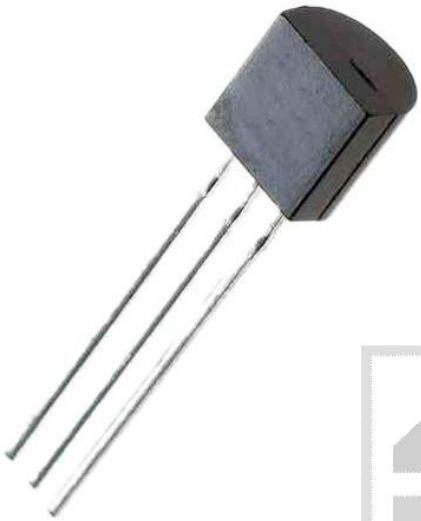
TR BF314;KAZEL;TO92;tranzystor; NPN;25mA;30V;300mW;450MHz



Dane techniczne:
Nazwa: BF314
Typ tranzystora: bipolarny
Kierunek przewodnictwa: NPN
Prąd kolektora: 25mA
Napięcie kolektor-emiter: 30V
Moc: 300mW
Częstotliwość: 450MHz
Montaż: przewlekany(THT)
Obudowa: TO92
Producent: KAZEL

BF314

NPN HIGH FREQUENCY
SILICON PLANAR EPITAXIAL TRANSISTOR

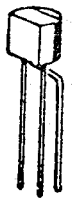
MICRO ELECTRONICS

GENERAL DESCRIPTION :

The BF314 is a NPN silicon planar epitaxial transistor designed for use as RF amplifier and VHF & UHF input stage in common base configuration.

MECHANICAL OUTLINE

TO-92F



CEB

THERMAL CHARACTERISTICS :

Thermal Resistance from Junction to Ambient, θ(j-amb)	0.35°C/mW
Maximum Collector Junction Temperature, Tj	150°C
Storage Temperature Range, Tstg	-55°C to +150°C
Soldering Temperature (10 sec. time limit)	260°C

ABSOLUTE MAXIMUM RATINGS :

Continuous Power Dissipation, @ $T_A \leq 45°C$, P_{tot}	300mW
Continuous Collector Current, I_C max	25mA
Continuous Base Current, I_B max	3mA
Collector-Base Voltage, V_{CBO}	30V
Collector-Emitter Voltage, V_{CEO}	30V
Emitter-Base Voltage, V_{EBO}	4V

ELECTRICAL CHARACTERISTICS @ T_A=25°C (unless otherwise stated) :

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS		
Collector-Base Breakdown Voltage	BV_{CBO}	30			V	I_C=10uA	I_E=0	
Collector-Emitter Breakdown Voltage	LV_{CEO}	30			V	I_C=2mA	I_B=0	
Emitter-Base Breakdown Voltage	BV_{EBO}	4			V	I_E=10uA	I_C=0	
Collector-Base Cutoff Current	I_{CBO}			60	nA	V_{CB}=20V	I_E=0	
Collector-Base Cutoff Current	I_{CBO}			10	uA	V_{CB}=20V	T_A=100°C	
D.C. Current Gain	h_{FE}	29				V_{CE}=10V	I_C=4mA	
Transition Frequency	f_T		600		MHz	V_{CE}=10V	I_C=1mA	f=100MHz
Feedback Capacitance (common base)	C_{rb}		0.4		pF	V_{CE}=10V	I_C=2mA	f=100MHz
Noise Figure	N.F.		2		dB	V_{CE}=10V	I_C=2mA	f=200MHz
						Rs=120ohm		
Input Conductance	gib		120		mS	V_{CB}=10V	I_E=-5mA	f=100MHz
Input Capacitance	Cib		70		pF	V_{CB}=10V	I_E=-5mA	f=100MHz
Feedback Admittance	$\|Y_{rb}\|$		0.6		mS	V_{CB}=10V	I_E=-5mA	f=100MHz
Phase Angle of Feedback Admittance	$-\theta_{rb}$		90°					
Transfer Admittance	$\|Y_{fb}\|$		130		mS	V_{CB}=10V	I_E=-5mA	f=100MHz
Phase Angle of Transfer Admittance	$-\theta_{fb}$		28°					
Output Conductance	gob		0.1		mS	V_{CB}=10V	I_E=-5mA	f=100MHz
Output Capacitance	Cob		1.6		pF	V_{CB}=10V	I_E=-5mA	f=100MHz

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